06-25-86

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RCRA COMPLIANCE EVALUATION INSPECTION REPORT

VANDENBERG AIR FORCE BASE
LOMPOC, CALIFORNIA

FINAL
~~DRAFT~~ REPORT

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Waste Programs Enforcement
Washington, D.C. 20460

Work Assignment No.	:	487
EPA Region	:	9
Site No.	:	CA9570025149
Date Prepared	:	September 9, 1986
Contract No.	:	68-01-7037
PRC No.	:	15-4870-00
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~~PRIVILEGED WORK PRODUCT PREPARED IN ANTICIPATION OF LITIGATION~~

~~ENFORCEMENT CONFIDENTIAL~~

INSPECTION REPORT

PREPARED FOR

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION 9

TOXICS AND WASTE MANAGEMENT DIVISION

COMPLIANCE AND RESPONSE BRANCH

RCRA Compliance Evaluation Inspection

Facility:	Vandenberg Air Force Base Lompoc, CA 93436
EPA Identification No:	CA 9570025149
Date of Investigation:	June 25, 1986
EPA Inspector:	Audrey Siler Jacobs Engineering Group, Inc.
Facility Representative:	Colonel Kenneth Kolthoff Vandenberg Air Force Base

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ATTACHMENTS

1.0 INTRODUCTION

On June 25, 1986, a RCRA Compliance Evaluation Inspection (CEI) was performed for EPA Region IX by Jacobs Engineering Group Inc. (Jacobs) personnel at the Vandenberg Air Force Base (VAFB). This work was conducted in partial fulfillment of the Technical Enforcement Support (TES) II Contract Work Assignment 487.

This investigation report consists of a discussion of the facility's RCRA background; a summary of the facility's reported hazardous waste management practices; observations made during the investigation; areas/items that were not investigated during the facility visit due to time constraints and logistics of this work assignment; investigation and document findings; and a listing of potential violations. This report is supplemented with a site-location map and a photograph of the VAFB hazardous waste storage area, as well as documentation obtained by the investigator as part of the inspection.

Additional documents obtained during the course of the inspection (Operation Plan, Contingency Plan, telephone memos, etc.) are maintained in the Jacobs TES contract file at Jacobs' Pasadena, CA office.

2.0 BACKGROUND

VAFB is located in Lompoc, Santa Barbara County, California. (See site location map, Appendix A.) The base comprises approximately 98,000 acres, including sixteen miles of coastline. The primary mission of VAFB is to maintain an aerospace center for the launch of space vehicles and the test launching of intercontinental ballistic missles. VAFB originally submitted a RCRA Part A Permit Application (see Attachment B) to EPA in November, 1980, as a hazardous waste generator and storage facility. The following hazardous wastes and estimated annual quantities were listed in the application:

EPA Hazardous Waste Number	Waste Description	Estimated Annual Quantity (pounds)
F001	Spent halogenated Solvents	126,000
K078	not listed in 40 CFR 261.32	42,000
K080	not listed in 40 CFR 261.32	21,000
P080	N-Nitrosodimethylamine	1,680
U002	Acetone	1,680
U140	Isobutyl alcohol	6,300
U160	Methyl ethyl ketone peroxide	8,400
U174	N - Nitrosodiethylamine	2,500
U208	1,1,1,2 Tetrachloroethane	10,800
U226	1,1,1 Trichloroethane	16,800

The wastes were to be stored onsite in containers (barrels, drums, etc.), with a total volume of 28,150 gallons. The waste quantities indicated on the Part A application were permitted under interim status which was granted to VAFB effective December 18, 1981.

On January 11, 1983, EPA granted interim authorization to the State of California to operate Phase II, Component A of its hazardous waste program in lieu of the Federal Program. As of that date, the facility came under State jurisdiction, and the RCRA Part A Permit Application was transferred to the California Department of Health Services (DOHS) on February 15, 1983.

Subsequent to the effective date of interim status, a new storage facility was constructed at the base. Although the new facility is a separate structure, DOHS did not require a revised Part A permit application and included the facility under the existing Interim Status Document.

A RCRA inspection report conducted on June 6, 1985 by USEPA inspectors and a memo from one of the inspectors emphasize the fact that the VAFB has no interim status or permit for the newly-built facility. However, in a letter dated September 24, 1985 (Appendix C), Mr. John Hinton of DOHS confirms the incorporation of the new facility into the existing conditions of interim status.

A Closure Plan for the original storage facility was submitted to DOHS on February 1, 1985. This plan indicated that closure of the staging area would begin on September 30, 1985. Closure activities have been completed. However, final certification has not yet been received.

A Part B permit application for the new facility was submitted to DOHS in June 1985. An updated list of hazardous wastes to be accepted and stored at the facility is presented in Appendix D. These wastes are currently accepted at the facility under the preexisting interim status conditions issued by the State. This list includes the following hazardous wastes/materials and annual generation rates:

EPA Hazardous Waste Number	Waste Description	Estimated Annual Quantity (pounds)
D001	Ignitable Materials	600,000
D002	Corrosive acids and bases	144,000
D003	Reactive Materials	6,000
D004 through D017	EP Toxic Waste	5,000
F001	Halogenated solvents	150,000
F002	Halogenated solvents	5,000
F003 through F005	Nonhalogenated solvents	25,000
F006 through F008	Sludges from electroplating operations	15,000
P	Acute hazardous wastes	15,000
U	Toxic wastes	20,000
	Pesticides	5,000
	Photography wastes	5,000
	Batteries	30,000
(CA 075)*	Asbestos	5,000
(CA 606)*	Polychorinated biphenyls	15,000
	Containers	5,000
	Spill residues	5,000

* These wastes are not regulated under RCRA.

3.0 DOCUMENT REVIEW AND SITE VISIT

Prior to the site visit, EPA documents were reviewed in preparation for the inspection and to develop site background. The documents provided to Jacobs by EPA include the Part A application, notification of the transfer of the RCRA permit file to DOHS, correspondence between the VAFB, DOHS and the USEPA, and a RCRA inspection report dated June 6, 1985.

The person responsible for environmental affairs at VAFB, Colonel Kenneth Kolthoff, was contacted and an appointment arranged for a site visit. A notification letter was sent so that the facility representative could prepare all the documents required for the inspection.

On June 25, 1986, the inspector arrived at the facility and presented credential letters to the guard at the main entrance gate. She then met Colonel Kolthoff of the

Environmental Task Force at VAFB. An inbriefing session was held to discuss the objectives of the inspection, the role of the Environmental Task Force and the handling of hazardous materials at the base. In addition to Colonel Kolthoff, attendees at the inbriefing included Colonel George Cudd, director of the Environmental Task Force, Fire Chief Hill, Lieutenant Colonel Bruce Stensvad, Major Chandler and Mr. Paul Ortiz, a representative of the Defense Reutilization Marketing Office (DRMO).

All requested documents were made available. They consisted of:

- Part A/Part B Application
- Facility Map, documenting all hazardous waste TSD areas
- Contingency Plan
- Waste Manifest Records
- Biennial Report
- Operating Record
- Closure Plan
- General Waste Analysis Plan
- Inspection Schedule.

The inspector reviewed the documents and interviewed the facility representatives in order to understand the facility's activities and methods of storage of hazardous wastes. Colonel Kolthoff explained that the mission of Vandenberg AFB is to maintain a missile test base and aerospace center. VAFB has had approximately 1400 major launches since 1958 to test reliability and accuracy and has put over 450 unmanned satellites into solar orbit providing coverage of the globe for outer atmospheric experiments, weather reporting, and earth resources technology. As a result of various Department of Defense (DOD) activities (metal plating, cleaning, finishing or stripping, lubricating, film processing, electroplating, painting, aerospace operations and maintenance, etc.), VAFB will temporarily store approximately one million pounds of hazardous waste a year. As indicated in the updated Part B permit application, these wastes include toxic, ignitable, reactive and corrosive wastes.

The Defense Reutilization Marketing Office Off-Site Branch Vandenberg (DRMO) is a tenant of VAFB. In support of the military services and other authorized customers, the DRMO provides a variety of property disposal service operations. These include

the receipt, segregation, inspection, classification, control, warehousing, and storage of excess, surplus, scrap and other disposable property turned into them. The DRMO then prepares these materials for reutilization, redistribution, transfer, donation, sale, destruction, or other disposal in an approved hazardous waste landfill.

Hazardous waste generated at the base is placed in containers and labelled by the originator of the waste. The waste is brought to a designated collection accumulation point by the waste generator. There are 26 accumulation points throughout the base. The waste is certified as to contents by DRMO or, if necessary, sampled. The waste is then moved by DRMO to the storage facility. A contractor, such as Chem Waste Management, Casmalia Resources or IT Corp., picks up waste at the facility and transports it to a certified disposal facility.

4.0 SITE INVESTIGATION

After the document review, the inspector proceeded on a facility tour under the guidance of the facility representatives.

At VAFB, hazardous wastes are stored in Building 3300. (See photograph, Attachment E.) The structure is made of reinforced concrete and all the exposed concrete floors and walls have epoxy coating. The roof is made of metal. The floor plan shows a slope from the side of the building down to the center.

The facility floor is divided into five contained sections as follows:

- Water Reactive Waste
- PCB Storage
- Toxic Waste
- Corrosive Waste
- Flammable Waste

Each of these sections is fenced and identified by a sign indicating the nature of the stored waste.

The facility has an internal ventilation system to minimize any airborne problems.

The following observations are offered based on the site investigation:

- The portion of the storage facility designated for PCB storage complied with the requirements of 40 CFR 761.

- All wastes were handled and stored in containers including 5-gallon drums, 5-gallon cans and various sized boxes. The containers were in excellent condition and were labeled.

- Containers were stored on pallets and placed in the appropriate areas. A forklift truck was utilized to transfer the drums into the storage building from transport vehicles.

- Flammables were away from corrosives and toxics, thus minimizing the chance of fire and explosion.

- The storage area had a 12-foot center aisle. Vertical storage stacks in each storage area are separated by approximately ten feet.

- The corrosive and toxic storage areas had a separate sump to contain leak or spillage.

- A fire wall divided the facility into two sections to separate flammable materials from the remainder of the facility.

- A total of eight-hundred fifty-two 55-gallon drums can be stored at the facility.

- Absorbent material is stored in the facility.

- A phone is located in the facility.

- Fire extinguishers and emergency eyewash/shower stations are located at each end of the facility.

- Safety equipment (respirators, gloves, etc.) are located near the front entrance.

Hazardous materials were also stored in the facility with compatable materials. These materials were new products, both current and outdated, that will be sold for reuse or recovery.

The building is not equipped with an automatic sprinkler system. Colonel Kolthoff explained that due to the close proximity of the base fire department, sprinklers were not included in the storage building.

5.0 AREAS NOT INVESTIGATED

Due to time constraints and logistics of this work assignment, it was not possible to completely investigate the different storage sections in Building 3300 and individually identify the contents, labelling, etc. of all the drums accumulated at the facility. In addition, areas throughout the base where hazardous wastes are generated and the waste accumulation points were also not investigated.

6.0 POTENTIAL VIOLATIONS

Contingency plan - 265.52d

The location of some emergency equipment (i.e., spill control equipment) is not indicated in the plan. (See Attachment F).

Operation during interim status - 270.71a

According to the biennial report (Attachment G), the facility has stored hazardous wastes not specified in the RCRA Part A application (i.e., D-listed wastes).

Operation during interim status 270.71a.3

According to the biennial report, the facility has exceeded the estimated annual storage capacity (28,150 gallons) specified in the Part A application.

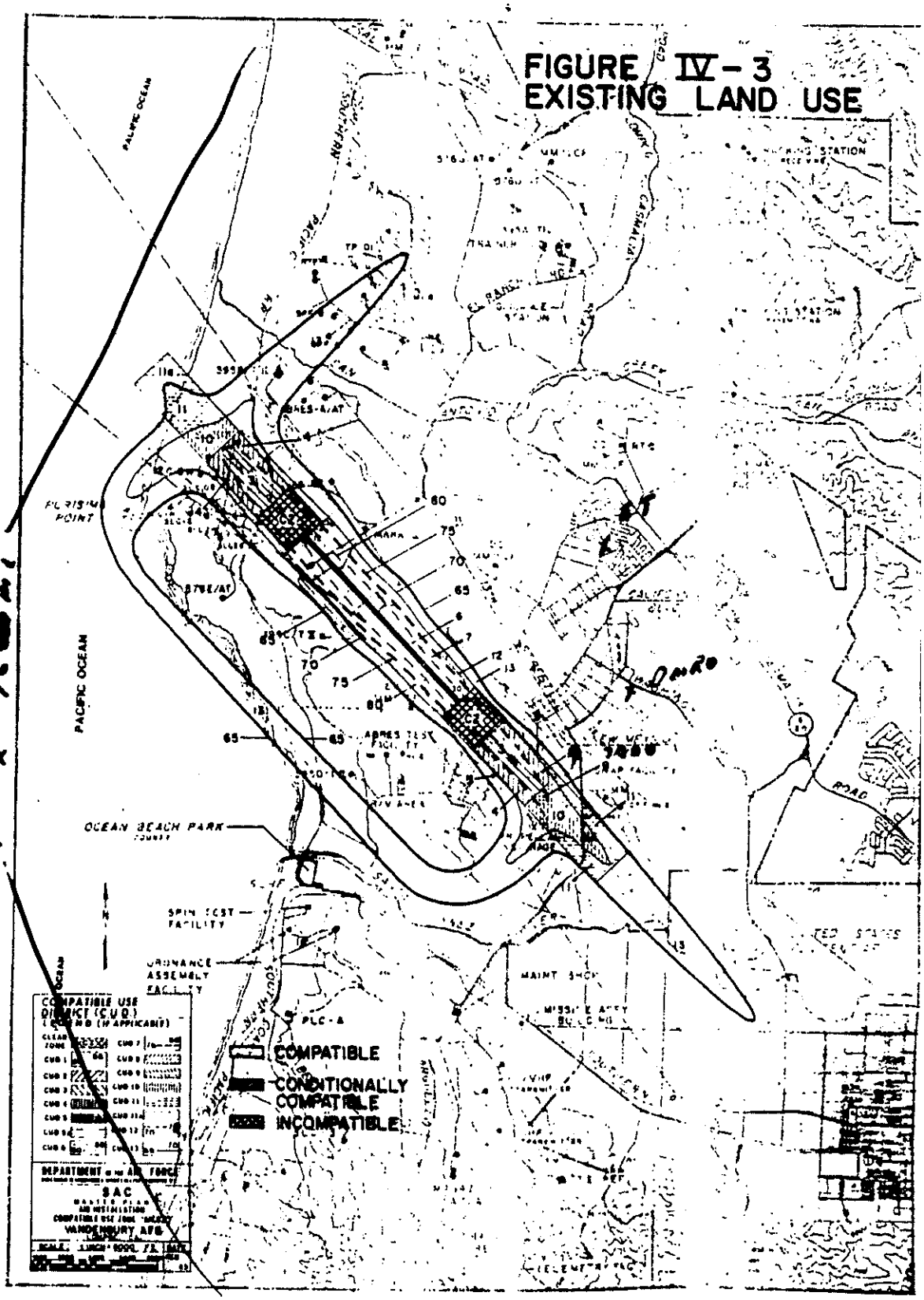
→ closure w/out approved plan

ATTACHMENT A

Site Location Map
Vandenberg Air Force Base,
Lompoc, CA

98,000 A.

FIGURE IV-3
EXISTING LAND USE



ATTACHMENT B

EPA RCRA Part A Application

Please print or type in the unshaded areas only (fill-in areas are spaced for elite type, i.e., 12 c/ s/inch).

Form Approved OMB No. 158-R0175

FORM 1 GENERAL — EPA

ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER: F CA9 57 00025 1 4 9

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

NAME: PRESS HARD WHEN FILLING IN NAME & ADDRESS. HERE

4392 AEROSG/DEV

STREET ADDRESS:

CITY, STATE, & ZIP CODE: Vandenberg AFB CA 93437

19 NOV 1980

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X	
B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X	
D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	
J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1 SKIP VANDENBERG AFB

IV. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)
2 BISHOP RONALD J. COL	805 866 1602

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

3 4392 AEROSG/CC

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4 VANDENBERG AFB	CA	93437

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

5 VANDENBERG AFB CA

B. COUNTY NAME

SANTA BARBARA

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)
6 LOMPOC	CA	93436	083

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES *(4-digit, in order of priority)*

A. FIRST	B. SECOND
7 9711 (specify) NATIONAL DEFENSE	7 (specify) N/A
C. THIRD	**D. FOURTH**
7 (specify) N/A	7 (specify) N/A

VIII. OPERATOR INFORMATION

A. NAME

9 4392 AEROSG/DEV

B. Is the name listed in Item VIII-A also the owner? ☐ YES ☒ NO

C. STATUS OF OPERATOR *(Enter the appropriate letter into the answer box; if "Other", specify.)*

F = FEDERAL; S = STATE; P = PRIVATE; M = PUBLIC *(other than federal or state)*; O = OTHER *(specify)*

F (specify) USAF

D. PHONE *(area code & no.)*

A 805 866 9687

E. STREET OR P.O. BOX

VANDENBERG AFB

F. CITY OR TOWN | **G. STATE** | **H. ZIP CODE**

8 LOMPOC | CA | 93436

IX. INDIAN LAND

Is the facility located on Indian lands? ☒ YES ☐ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES *(Discharges to Surface Water)*	**D. PSD** *(Air Emissions from Proposed Sources)*
9 N N/A	9 P N/A
B. UIC *(Underground Injection of Fluids)*	**E. OTHER** *(specify)*
9 U N/A	9 N/A (specify)
C. RCRA *(Hazardous Wastes)*	**E. OTHER** *(specify)*
9 R	9 (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property bounderies. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

A

XII. NATURE OF BUSINESS *(provide a brief description)*

USAF (SAC)

JT

The mission of Vandenberg AFB is to maintain a missile test base and aerospace center. VAFB has had approximately 1400 major launches since 1958 to test reliability and accuracy and has put over 450 unmanned satellites into polar orbit providing maximum coverage of the globe for outer atmospheric experiments, weather reporting, and earth resources technology.

XIII. CERTIFICATION *(see instructions)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE *(type or print)*	B. SIGNATURE	C. DATE SIGNED
RONALD J. BISHOP, JR., Colonel, USAF	Ronald J Bishop Jr	14 Nov 80

COMMENTS FOR OFFICIAL USE ONLY

C

Please print or type in the unshaded areas only
(fill—in areas are spaced for elite type, i.e., 12 characters/inch).

orm Approved OMB No. 158-S80004

FORM 3 RCRA

EPA

ENVIRONMENTAL PROTECTION AGENCY

HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUM

F	C	A	9	5	7	0	0	2	5	1	4	9		1

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS
B	90 11 19	

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below *(mark one box only)* to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

C	YR.	MO.	DAY
8			

☒ 2. NEW FACILITY *(Complete item below.)*

FOR NEW FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR IS EXPECTED TO BEGIN

YR.	MO.	DAY
8 0	1 1	1 5

B. REVISED APPLICATION *(place an "X" below and complete Item I above)*

☐ 1. FACILITY HAS INTERIM STATUS

☐ 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES – CODES AND DESIGN CAPACITIES

A. **PROCESS CODE** – Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the form *(Item III-C)*.

B. **PROCESS DESIGN CAPACITY** – For each code entered in column A enter the capacity of the process.
1. AMOUNT – Enter the amount.
2. UNIT OF MEASURE – For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER *(barrel, drum, etc.)*	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D79	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER *(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)*	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING ITEM III *(shown in line numbers X-1 and X-2 below)*: A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

C DUP

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
X-1	S02	600	G		5				
X-2	T03	20	E		6				
1	S01	28,150	G		7				
2					8				
3					9				
4					10				

Continued from the front.

III. PROCESSES *(continued)*

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES *(code "T04")*. FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

N/A

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four—digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four—digit number*(s)* from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each **listed waste** entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each **characteristic** or **toxic contaminant** entered in column A estimate the total annual quantity of all the non—listed waste*(s)* that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:
   For listed hazardous waste: For each **listed** hazardous waste entered in column A select the code*(s)* from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.
   For non—listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code*(s)* from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed hazardous wastes that possess that characteristic or toxic contaminant.
   Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code*(s)*.
2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non—listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W C A 9 5 7 - - 2 5 1 4 9 — T/A: 1	W DUP — T/A: 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	F001	126,000	P	S O I	(Line 1 thru 10): All hazardous
2	K078	42,000	P	S O I	waste will be disposed of in a
3	K080	21,000	P	S O I	Class I sanitary landfill.
4	P082	1,680	P	S O I	"
5	U002	1,680	P	S O I	"
6	U140	6,300	P	S O I	"
7	U160	8,400	P	S O I	"
8	U174	2,500	P	S O I	"
9	U208	10,800	P	S O I	"
10	U226	16,800	P	S O I	"
11	PCBS	75 Transformers			All transformers below 50 PPM
12					will be sold complete with
13					dielectric. All transformers
14					above 50 PPM will be held in
15					storage until there is an
16					adequate state of the art
17					relative to disposal.
18					
19					
20					
21					
22					
23					
24					
25					
26					

IV. DESCRIPTION OF HAZARDOUS WAST ontinued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. (enter from page 1)

F CA 9 5 7 2 0 2 5 1 4 9 T/A 6

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail).* See Atch #1

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground—level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail).* (See Atch #2)

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes, & seconds)	LONGITUDE (degrees, minutes, & seconds)
34 45 46.460	120 33 02.020

VIII. FACILITY OWNER

☐ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. (area code & no.)
E USAF	805-866-9687

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
F Vandenberg AFB	G Lompoc, CA		93436

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
JOHN N. SHULTS, Colonel, USAF	John N Shults	19 January 1981

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
HENRY D. SHANKS	Henry D Shanks	4 NOV 80

ATTACHMENT C

Correspondence
DOHS Verification of Interim Status
September 24, 1985

STATE OF CALIFORNIA—HEALTH AND WELFARE AGENCY GEORGE DEUKMEJIAN, Governor

DEPARTMENT OF HEALTH SERVICES
107 SOUTH BROADWAY, ROOM 7011
LOS ANGELES, CA 90012
213-620-2380

September 24, 1985

Colonel George S. Cudd, USAF
Envinronmental Task Force
Headquarters 1st Strategic Aerospace Division (SAC)
Vandenberg Air Force Base, CA 93437-5000

Dear Colonel Cudd:

ISD STATUS OF WASTE STORAGE FACILITY, BUILDING 3300 (CA 9570025149)

This letter is to confirm that the new Hazardous Waste Storage Facility, Building 3300, shall be included in the Interim Status Document (ISD) issued to Vandenberg Airforce Base (CA 9570025149) on December 18, 1981. All conditions set forth in the original ISD shall now be applied to Building 3300. The following additional requirements must also be met.

- All hazardous waste shall be removed from the old Hazardous Waste Shortage facility specified as facility 16351 Space Launch Complex 1 East. Removal of all waste from the old facility shall be completed within 30 days of the date of the letter.
- A closure plan for the old facility must be submitted within 15 days of the date of this letter.
- Closure of the old facility shall commence immediately.

Your Part B permit application has been received by the Department and is currently under review. If you have any questions concerning your ISD and/or your Part B, contact Stephen Baxter of my staff.

Sincerely,

John A. Hinton, P.E., Chief
Facility Permitting Unit
Southern California Section
Toxic Substances Control Division

JAH:SB:jba

ATTACHMENT D

Updated List of Acceptable Hazardous Wastes

EPA HAZARDOUS WASTE CODE	TYPE BY NAME	MONTHLY	YEARLY	PROCESS THAT PRODUCED WASTE	CONTAINER	UNIT OF MEASURE	HAZARD OF PROPERTY
D001 - Ignitables (40 CFR 261.21, & 40 CFR 261 Subpart D). (Title 22, Article 9,11)	Flammable liquids & solids such as, IPA paint wastes, petroleum wastes, thinners, adhesives, solvents, and misc. flammables etc.	100 Drums 50,000 lbs	1,200 Drums 600,000 lbs	Protective coating, cleaning operation, vehicle maint.	DOT Spec. containers	lbs.	Ignitable combustibl
D002 - Corrosives - Acid Bases (40 CFR 261.22, & 40 CFR 261 Subpart D). (Title 22, Article 9,11)	Corrosive liquids & solids such as, Hydrochloric, nitric, acetic, sulfuric, sodium hydroxide, potassium hydroxide & misc. corrosive & bases etc.	24 Drums 12,000 lbs	288 Drums 144,000 lbs	Cleaning Operations Shelf-life expired items.	DOT Spec	lbs.	Corrosive Oxidizer
D003 - Reactives (40 CFR 261.23 & 40 CFR 261 Subpart D). (Title 22, Article 9,11)	Reactive liquids & solids such as, Organic peroxide, potassium nitrate, misc. solvents & misc. reactives etc.	1 Drum 500 lbs	12 Drums 6,000 lbs	Aerospace Operations and maintenance	DOT Spec	lbs.	Reactive Toxic
D004 Thru D0017 EP Toxic Waste (40 CFR 261.24 & 40 CFR Subpart D). (Title 22, Article 9,11)	Misc. EP Toxic Wastes such as, Arsenic compounds, mercury compounds, cadium, chromium, lead, lindane contaminated wastes.	1 Drum 415 lbs	12 Drums 5,000 lbs	Missle Operations and Maintenance. Metal finishing.	DOT Spec container	lbs.	EP Toxic

UPDATED
ENCLOSURE 8

EPA HAZARDOUS WASTE CODE	TYPE BY NAME	MONTHLY	YEARLY	PROCESS THAT PRODUCED WASTE	CONTAINER	UNIT OF MEASURE	HAZARD OF PROPERTY
F001 - Halogenated Solvents (40 CFR 261.31, & 40 CFR Subpart D).	Spent Halogenated Solvents such as, Trichloroethylene, methylene chloride, trichloroethane, carbon tetrachloride and chlorinated fluorocarbons.	25 Drums 12,500 lbs	300 Drums 150,000 lbs	Degreasing Operations	Drums	lbs	Toxic
F002 - Halogenated Solvents (40 CFR 261.31, & 40 CFR Subpart D).	Spent Halogenated Solvents such as, Chlorobenzene, trichlorofluoromethane, ortho-dichlorobenzene.	1 Drum 450 lbs	12 Drums 5,000 lbs	Degreasing Operations	Drums	lbs	Toxic
F003 - Non Halogenated Solvents (40 CFR 261.31, & 40 CFR Subpart D).	Spent Non-Halogenated Solvents such as, Xylene, Acetone, MIK, ethyle acetate, ethyle ether n-butyl alcohol and methanol.	1 Drum 450 lbs	12 Drums 5,000 lbs	Degreasing Operations	Drums	lbs	Ignitable
F004 - Non Halogenated Solvents (40 CFR 261.31, & 40 CFR Subpart D).	Spent Non-halogenated Solvents such as, Cresols and cresylic acids and nitrobenzene.	1 Drum 450 lbs	12 Drums 5,000 lbs	Vehicle Maintenance	Drums	lbs	Toxic

EPA HAZARDOUS WASTE CODE	TYPE BY NAME	MONTHLY	YEARLY	PROCESS THAT PRODUCED WASTE	CONTAINER	UNIT OF MEASURE	HAZARD OF PROPERTY
F005 - Non Halogenated Solvents (40 CFR 261.31, & 40 CFR Subpart D).	Spent Non-halogenated Solvents such as, Toluene, MEK, carbon disulfide, Isobutanol and pyridine.	3 Drums 1,250 lbs	36 Drums 15,000 lbs	Cleaning & Paint Stripping Operations	Drums	lbs	Toxic Ignitable
F006 - (40 CFR 261.31)	Wastewater Treatment sludges from electroplating operations. Exceptions in (40 CFR 261.31).	1 Drum 450 lbs	12 Drums 5,000 lbs	Electroplating Operations.	Drums	lbs	Toxic
F007 - (40 CFR 261.31)	Spent cyanides plating bath solutions from electroplating operations.	1 Drum 450 lbs	12 Drums 5,000 lbs	Electroplating Operations.	Drums	lbs	Reactive Toxic
F008 - (40 CFR 261.31)	Plating Bath sludges from the bottom of plating baths.	1 Drum 450 lbs	12 Drums 5,000 lbs	Electroplating Operations.	Drums	lbs	Reactive Toxic

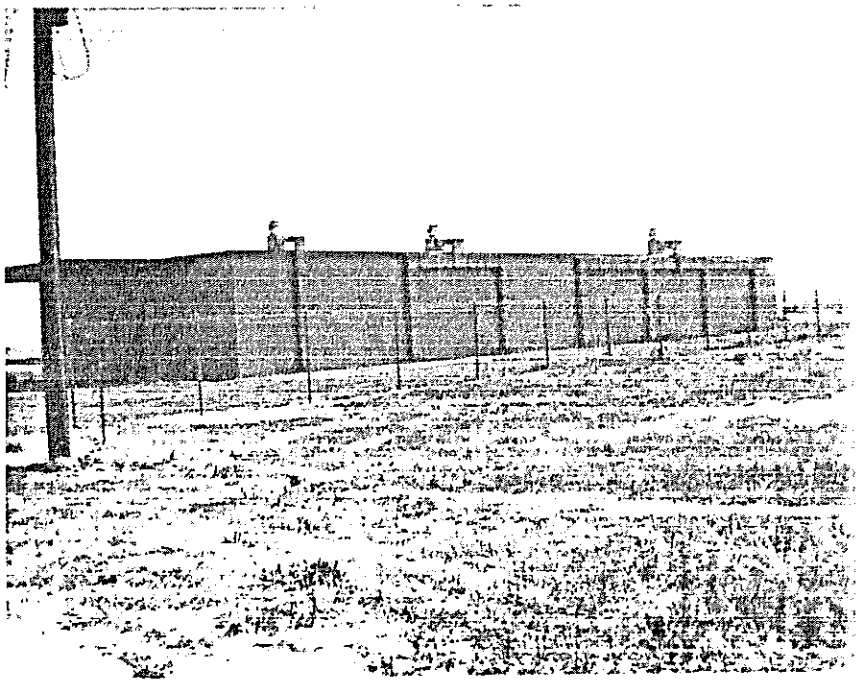
EPA HAZARDOUS WASTE CODE	TYPE BY NAME	MONTHLY	YEARLY	PROCESS THAT PRODUCED WASTE	CONTAINER	UNIT OF MEASURE	HAZARD OF PROPERTY
P - Listed Wastes Acute Hazardous Waste (40 CFR 261.33(e).	Calcium cyanide, sodium cyanide, hydrogen cyanide, silver cyanide, and misc. acute hazards waste.	3 Drums 1,250 lbs	36 Drums 15,000 lbs	Cleaning Operations Shelf Life expired metal finishing	Drums	lbs	Reactive Toxic

EPA HAZARDOUS WASTE CODE	TYPE BY NAME	MONTHLY	YEARLY	PROCESS THAT PRODUCED WASTE	CONTAINER	UNIT OF MEASURE	HAZARD OF PROPERTY
U - Listed Wastes Toxics (40 CFR 261.33(f).	Aniline, Thiourea, Toluene diisocyanate, formaldehyde, and misc. toxic wastes.	4 Drums 1,500 lbs	48 Drums 20,000 lbs	Cleaning Operations Shelf Life Expired	Drums	lbs	Toxic
Pesticides	Diazinon, malathion lindane, and misc. pesticides.	1 Drum 450 lbs	12 Drums 5,000 lbs	Entomology	Drums	lbs	Toxic
Photography Wastes	Developers, Toners, bleaches, fixers, hardners, and misc. photography wastes.	1 Drum 450 lbs	12 Drums 5,000 lbs	Photo Squad	Drums	lbs	Corrosive Flammable
Batteries	Lead acid, zinc-akali, silver-zinc, alkaline, magnesium and nickel cadium.	5 Drums 2,500 lbs	60 Drums 30,000 lbs	Vehicle Maintenance Missle Maintenance	Pallets Drums	lbs	Corrosive
CA 075	Asbestos	1 Drum 450 lbs	12 Drums 5,000 lbs	Bldg Demolition	Double bags Drums	lbs	Toxic

EPA HAZARDOUS WASTE CODE	TYPE BY NAME	MONTHLY	YEARLY	PROCESS THAT PRODUCED WASTE	CONTAINER	UNIT OF MEASURE	HAZARD OF PROPERTY
CA 606	Polychlor-Biphenyls such as, Liquids, Transformers, articles.	3 Drums 1,250 lbs	36 Drums 15,000 lbs	Change Elec. Equipment	Drums Carcuss	lbs	Toxic
Containers	Containers such as one gallon or larger which previously contained P-Listed & U-Listed Wastes. Containers one gallon or larger with less than one inch previously contaminated with hazardous material	1 Drum 450 lbs	12 Drums 5,000 lbs	Vehicle Maintenance Missle Maintenance	Drums	lbs	
Spill Residues (RCRC Waste Contaminated)	Misc. Spill Residues from clean-up, contaminated pallets.	1 Drum 450 lbs	12 Drums 5,000 lbs	CAP'S Hazards Waste Handling & Clean-up Operations	Drums Pallets	lbs	

ATTACHMENT E

Site Photograph



Photograph 1

Date:	June 25, 1986
Photograph:	A. Siler
Witness:	K. Kolthoff
Location:	Vandenberg Air Force Base, Building 3300
Description:	Hazardous Waste Storage Facility

ATTACHMENT F

Contingency Plan

HEADQUARTERS 4392 AEROSPACE SUPPORT GROUP
Vandenberg Air Force Base, California
11 June 1986

CONTINGENCY PLAN FOR FACILITY 3300

1. Purpose:

The purpose of this contingency plan is to provide detailed instructions for facility and emergency response personnel to follow in order to minimize hazards and risks to human health or the environment resulting from fires, explosions, or any sudden or non-sudden release or discharge of hazardous waste(s) at or from the facility to the air, soil, or water. The procedures are also to be used as guidance in the event of a spill or other emergency involving hazardous waste(s) elsewhere at Vandenberg AFB.

2. Activation of the Coningency Plan:

Actions specified in this contingency plan shall be initiated and carried to completion immediately upon the occurrence or detection of a fire, explosion, or any release or discharge of hazardous waste(s) which could threaten human health or the environment.

3. Duties of Personnel Discovering Emergency Conditions:

a. Personnel discovering, detecting, or observing a fire, explosion, release, or situation with potential for such events at the facility shall immediately carry out the following actions, generally in the order given:

(1) Activate facility alarms or otherwise warn others at the facility of the emergency (see attach #1, for Fire Alarm pull box).

(2) Make observations, as possible, on the amount and type of material involved, the nature and extent of the problem, and other pertinent facts that may assist the OSC in initial response.

(3) Building 3300 has a phone system. When an emergency is recognized, the 911 number should be called. This will automaticily contact the Fire Department, Security Police and Hospital and is availble 24 hours a day. The hospital will notify the Command Post and the SPCC Plan 234-81 will be initiated, if required. The Command Post in coordination with the on-scene commander will request off base aid through the Santa Barbara County Office of Emergency Services, as required.

(4) To the degree possible, include the following information in the report:

(a) Name and present location of person reporting the spill.

(b) Site of spill.

(b) Name and address of facility.

(c) Time and type of incident.

(d) Name and quantity of materials(s) involved, to the extent possible.

(e) The extent of injuries, if any.

(f) The possible hazards to human health or the environment beyond the bounds of the facility. In assessing reportability, the OSC shall use as a standard the threat to human health or the environment outside facility 3300 site boundaries.

(6) If it is determined that evacuation of local areas may be advisable, notify appropriate local authorities and advise them of the nature of the threat and the area likely to be affected.

(7) Take all reasonable measures necessary to bring an emergency to conclusion and ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous wastes or to the environment. Such measures may include, but not be limited to, stopping operations, collecting and containing released waste, and removing or isolating containers.

(8) Coordinate and facilitate sampling and monitoring for leaks; pressure buildup; gas generation, ruptures of containers, valves pipes, etc.; harmful personnnel exposures; and other developments that could adversely affect members of the response team, facility personnel, other people in the area, or the environment.

(9) Ensure that follow-on actions are initiated and carried out in a prompt, safe, and effective manner to clean up, store, and dispose of recovered waste(s); contaminated soils, water, absorbents, and other materials; or any other hazardous wastes produced as a result of the incident or response to it.

(10) In the affected areas of the facility, ensure that no waste(s) incompatible with the released material is stored, at the facility until clean up procedures are complete. In addition, all emergency equipment on the facility inventory shall be cleaned and fit for its intended use and restored to stock levels before operations may be resumed, the California Department of Health Services, and any required local authorities, shall be notified that the conditions of this paragraph have been met.

(11) Note in the operating record the time, date, and details of any incident requiring activation of the contingency plan.

(12) Notify the California Department of Health Services in writing of the incident within 30 days. The report shall include at a minimum:

(a) Name, address and telephone number of the owner/operator.

(b) Name, address, and telephone number of the facility.

(c) Date, time, and type of incident.

(d) Name and quantity of material(s) involved.

4392 AEROSG/SPG	6-4230
4392 AEROSG/DW	6-4021
SAMTO/CC	6-6071
6595th Shuttle Test Group	6-3862
WSMC/CC	6-4976
SD/DEC	6-5854

8. Off-Base Distribution of Plan. Distribution of the plan shall be made to the following off-base organizations:

a. California Department of Health Services

b. California Emergency Response Team'

9. Amendment of the Plan. This contingency plan shall be reviewed not less than annually. In addition, the plan shall be amended promptly and notice of any changes distributed if:

a. Applicable regulations are revised and result in a requirement for changes in this plan.

b. The plan fails in an emergency or is found to be faulty when exercised.

c. Information on OSCs changes.

d. The emergency equipment list changes.

10 Non-Emergency Duties of the OSC:

a. The OSC shall be on call, to respond to an emergency condition within a short period of time at all times. The OSC shall coordinate all emergency response measures, calling upon and placing into service any Base or outside assistance, resources or expertise required to minimize adverse impacts of any emergency on human health or the environment. The OSC shall be familiar with all aspects of this contingency plan, all operations and activities conducted at the facility, the location and characteristics of wastes handled at the facility, the location of records within the facility, and the facility layout.

b. The OSC shall have the authority to commit the resources needed to carry out the contingency plan.

11. Relationship to Other Emergency Plans:

In as much as other plans may be activated during an emergency, this contingency plan shall be used in conjunction with such other plans, i.e operations plan (Spill Plan 234-81, OPLAN 236-84.

12. OSC Support:

All base organizational units shall be made available to support OSC response to an emergency. Assistance from the following organizations is anticipated to be essential:

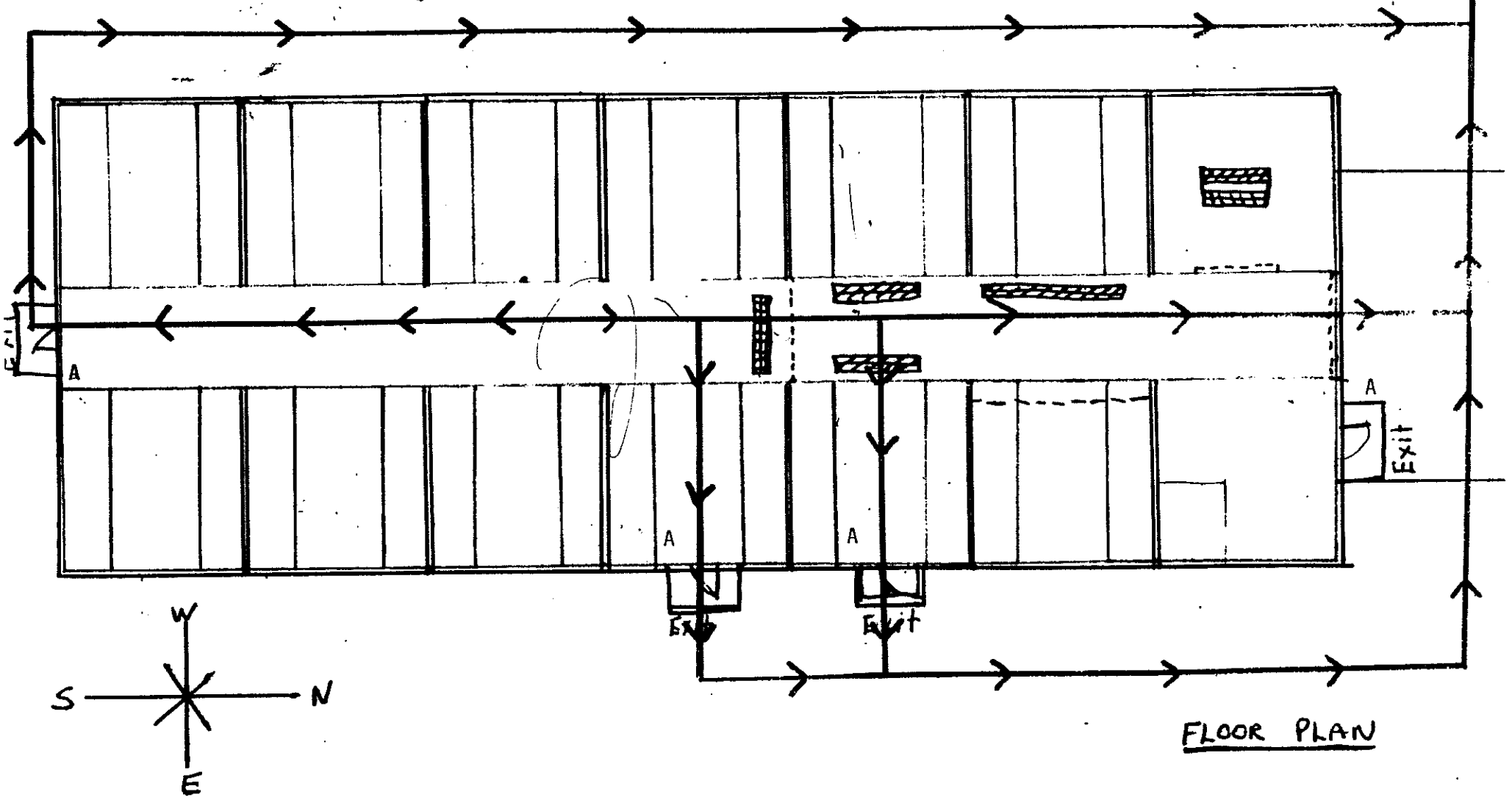
Base Civil Engineer	(Service Desk 6-1856)
USAF Hospital Bioenvironmental	(6-7811)
Engineering Service	(6-3611)

ATTACHMENT 1

**** EVACUATE 2000 feet upwind

A---- ALARM PULL BOX
(in four locations)

Bldg 3300 Evacuation Plan



FLOOR PLAN

ATTACHMENT G

Biennial Report

#10 1985 Hazardous Waste Biennial Report

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 4392D AEROSPACE SUPPORT GROUP (SAC)
VANDENBERG AIR FORCE BASE, CALIFORNIA 93437-5000

10 MAR 1986

California Department of Health Services
Toxic Substances Control Division
Hazardous Waste Management Section
P.O. Box 3000
Sacramento CA 95812

Gentlemen

In 1985, Vandenberg formed the Air Force's first Environmental Task Force to address environmental issues affecting the base's 98,400 acres. The base is actively pursuing hazardous wastestream identification and reduction. A base hazardous waste audit is awaiting funding.

Attached are Vandenberg AFB's Generator Biennial Report, Facility Biennial Report, and Wastestream Report for calendar year 1985.

Per telecon clarification (February 13, 1986 with DHS/LA), the 1983 Biennial report forms are used for the 1985 report.

If you have any questions, please call Lt Col Bruce Stensvad at 1 STRAD/ETM, (805)866-9687/89.

Sincerely

RICKELL D. KNOLL, Colonel, USAF
Commander

3 Atch
1. Generator Biennial Report
2. Facility Biennial Report
3. Wastestream Report

cc: Angelo Bellomo, Chief
Southern California TCSD
107 South Broadway, Room 7011
Los Angeles CA 90012

Regional Water Quality
Control Board
Central Coast Region 3
1102-4 Laurel Lane
San Luis Obispo CA 93401

Peace....is our Profession

ENVIRONMENTAL PROTECTION AGENCY

GENERATOR BIENNIAL HAZARDOUS WASTE REPORT FOR 1985 ~~1983~~

This report is for the calendar year ending December 31, 1983.
Read All Instructions Carefully Before Making Any Entries on Form

I. NON-REGULATED STATUS

Complete this section only if you did not generate regulated quantities of hazardous waste at any time during the 1983 calendar year. Circle the one code at right that best describes your status during the entire year (see instructions for explanation of codes).

1 Non-handler
2 Small Quantity Generator
4 Exempt
5 Beneficial Use
9 Closed

This Installation's Non-Regulated Status is Expected to Apply:

☐ For 1983 Only ☐ Permanently

☐ Other _____

II. GENERATOR'S EPA I.D. NUMBER

T/A C

C A 9 5 7 0 0 2 5 1 4 9

13 14 15

III. NAME OF INSTALLATION

V A N D E N B E R G A I R F O R C E B A S E

30 69

IV. INSTALLATION MAILING ADDRESS

1 S T R A D E T (4 3 9 2 A E R O S G D F V 1)

15 16 45

Street or P.O. Box

V A N D E N B E R G A F B C A 9 3 4 3 7

15 16 41 42 47 51

City or Town State Zip Code

V. LOCATION OF INSTALLATION (if different than section IV above)

15 16 45

Street or Route number

15 16 41 42 47 51

City or Town State Zip Code

VI. INSTALLATION CONTACT

G E O R G E S C U D D C O L U S A F D I R E T

15 16 45

Name (last and first)

8 0 5 - 8 6 6 - 9 6 8 7

46 55

Phone No. (area code & no.)

VII. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

George S. Cudd, Colonel, USAF — 5 March 84

Print/Type Name — Title — Signature of Authorized Representative — Date Signed

ENVIRONMENTAL PROTECTION AGENCY

Generator Biennial Hazardous Waste Report for ~~1983~~ 1985 (cont.)

This report is for the calendar year ending December 31, 1983.

VIII. GENERATOR'S EPA I.D. NO.

[redacted] C A 9 5 7 0 0 2 5 1 4 9 [redacted]

IX. FACILITY NAME (specify facility to which all wastes on this page were shipped)

1. Casmalia Resources-3, IT Corp.
2. Chem Waste Management

X. FACILITY'S EPA I.D. NO.

[redacted] C A 9 5 7 0 0 1 2 5 1 4 9 [redacted]

XI. FACILITY ADDRESS

1 STRAD/ET (4392 AEROSG/DEV)
Vandenberg AFB, CA 93437

XII. TRANSPORTATION SERVICES USED

1. Casmalia Resources (CA DO 20748125)
2. Chem Waste Management(CA D00398-6718)
3. IT Corporation (CA DO 29654894)

XIII. WASTE IDENTIFICATION

No.	A. Description of Waste	B. DOT Hazard Code	C. EPA Hazardous Waste No. (see instructions)	D. Amount of Waste	E. Unit of Measure
1	Hydrochloric Acid	0 2	D 0 0 6	1 3 3 5	P
2	Hydrogen Fluoride	1 8	U 1 3 4	1 0 3 7 5	P
3	Phosphoric Acid	0 2	U 1 4 5	6 2 5	P
4	Sulfuric Acid	0 2	U 1 0 3	2 2 5	P
5	Sulfuric Acid (Spent)	0 2	U 1 0 3	2 4 2 5	P
6	Phenol	0 9	U 1 8 8	1 4 0	P
7	Chloroform	0 4	U 0 4 4	4 7 6 0	P
8	Perchloroethylene	1 8	K 0 3 0 F 0 0 V	6 0	P
9	Trifluorochloroethane	0 5	F 0 0 2	7 1 6 3	P
10	Trichlorotrifluoroethane	1 8	F 0 0 2 D 0 0 7	1 1 1 9 5 7	P
11	Isocyanates, Isocyanic Acid	1 8	2 2 0 6 P 0 6 4	6 7 0 4	P
12	Mercury Compounds	1 8	U 1 5 1	2 5 0	P

XIV. COMMENTS (enter information by section number—see instructions)

Tear out here

ENVIRONMENTAL PROTECTION AGENCY 1985

Generator Biennial Hazardous Waste Report for ~~1983~~ (cont.)

This report is for the calendar year ending December 31, 1983.

VIII. GENERATOR'S EPA I.D. NO.

CA 9 5 7 0 0 2 5 1 4 9 [redacted]

IX. FACILITY NAME (specify facility to which all wastes on this page were shipped)

1. Casmalia Resources3, IT Corp.
2. Chem Waste Management

X. FACILITY'S EPA I.D. NO.

CA 9 5 7 0 0 2 5 1 4 9

XI. FACILITY ADDRESS

1 STRAD/ET (4392 AEROSG/DEV)
Vandenberg AFB CA 93437

XII. TRANSPORTATION SERVICES USED

1. Casmalia Resources (CA DO 20748125)
2. Chem Waste Management (CA D00398-6713)
3. IT Corporation (CA DO 29654894)

XIII. WASTE IDENTIFICATION

No.	A. Description of Waste	B. EPA Hazard Code	C. EPA Hazardous Waste No. (see instructions)	D. Amount of Waste	E. Unit of Measure
1	Ammonia - Solution	18	D002	2950	P
2	Methyl Chloride	18	F001 U080 1593	140	P
3	Chlorodifluoromethane Freon 22	04	F002 U075 1018	415	P
4	Acetone	08	U002 F008 1090	5000	P
5	Methyl Ethyl Ketone	17	U159 D001 F005	10030	P
6	Methyl Alcohol	08	U154 1230	3649	P
7	Petroleum Distillates	18	K049 D001 F002	19125	P
8	Dichloromethane	10	F024	3324	P
9	Potassium Cyanide	18	P030 F010	15050	P
10	Trichloroethylene	18	U228 F001	34395	P
11	Chromic Acid Solution	18	U032 F006	971	P
12	Sulfuric Acid	02	U103 0002 1830	2549	P

XIV. COMMENTS (enter information by section number—see instructions)

ENVIRONMENTAL PROTECTION AGENCY

Generator Biennial Hazardous Waste Report for ~~1983~~ 1985 (cont.)

This report is for the calendar year ending December 31, 1983.

VIII. GENERATOR'S EPA I.D. NO.

CA9570025149

IX. FACILITY NAME (specify facility to which all wastes on this page were shipped)

1. Casmalia Resources 3. IT Corp.
2. Chem Waste Management

X. FACILITY'S EPA I.D. NO.

CA9570025149

XI. FACILITY ADDRESS

1 STRAD/ET (4392 AEROSG/DEV)
Vandenberg AFB, CA 93437

XII. TRANSPORTATION SERVICES USED

1. Casmalia Resources (CA DO 20748125)
2. Chem Waste Management (CA D00398-6713)
3. IT Corporation (CA DO 29654804)

XIII. WASTE IDENTIFICATION

Line	A. Description of Waste	B. DOT Hazard Code	C. EPA Hazardous Waste No (see instructions)	D. Amount of Waste	E. Unit of Measure
1	Cadmium Compound	18	D006	1150	P
2	Diazonin	18	U061	1150	P
3	Trichloroethane		4226U227 F002F024	5708.1	P
4	Sodium Chromate	18	D007	5037	P
5	Chromium		F002D007	37620	P
6	Allyl Ether Alcohol	08	P005	1000	P
7	Resin Solution	18	F003	290	P
8	Hydrazine (see note 1)	18	U133	155938	P
9	Hydrazine (see note 2)	18	U133	44580	P
10	Unsymmetrical Dimethyl Hydrazine	18	U099	84940	P
11	PCB - Liquid (see note 3)	18	261	12825	P
12	PCB - Equipment (Carcass)	18	261	13979	P

XIV. COMMENTS (enter information by section number—see instructions)

1. Disposed off base for calendar year 85.
2. Remaining HW Generation for 1985, (more than 90 days) disposal off base (to an EPA permitted TSD) in progress.
3. CA HW Number 261

ENVIRONMENTAL PROTECTION AGENCY

Generator Biennial Hazardous Waste Report for ~~1983~~ 1985 (cont.)

This report is for the calendar year ending December 31, 1983.

VIII. GENERATOR'S EPA I.D. NO.

C A 9 5 7 0 0 2 5 1 4 9 T/A C

IX. FACILITY NAME (specify facility to which all wastes on this page were shipped)

1. Casmalia Resources 3. IT Corp.
2. Chem Waste Management

X. FACILITY'S EPA I.D. NO.

C A 9 5 7 0 0 2 5 1 4 9

XI. FACILITY ADDRESS

1 STRAD/ET (4392 AEROSG/DEV)
Vandenberg AFB, CA 93437

XII. TRANSPORTATION SERVICES USED

1. Casmalia Resources (CA DO 20748125)
2. Chem Waste Management (CA D00398-6718)
3. IT Corporation (CA DO 29654894)

XIII. WASTE IDENTIFICATION

No.	A. Description of Waste	B. DOT Hazard Code	C. EPA Hazardous Waste No. (see instructions)	D. Amount of Waste	E. Unit of Measure
1	Asbestos Material (see note 4)	18		9681	P
2	Waste Oil (see note 5)	08	2221	309223	P
3	Paint Distillates Related Materials	08	D001 F003	64656	P
4					
5					
6					
7					
8					
9					
10					
11					
12					

XIV. COMMENTS (enter information by section number—see instructions)

4. CA. Haz Waste . #151
5. CA. Haz Waste .. #221

ENVIRONMENTAL PROTECTION AGENCY 1985

Facility Biennial Hazardous Waste Report for ~~1983~~ (cont.)

This report is for the calendar year ending December 31, 1983.

IX. FACILITY'S EPA I.D. NO. T/A C

C A 9 5 7 0 0 2 5 1 4 9

X. GENERATOR'S EPA I.D. NO.

C A 9 5 7 0 0 2 5 1 4 9

XI. GENERATOR NAME (specify generator from whom all wastes on this page were received)

1 STRAD/ET (4392 AEROSG/DEV) ON-SITE ☐

XII. GENERATOR ADDRESS

1 STRAD/ETQ (4392 AEROSG/DEV)
Vandenberg AFB CA 93437

XIII. TOTAL WASTE IN STORAGE ON DECEMBER 31, 1983 (complete this section only once for your facility)

S01 AMOUNT OF WASTE UOM S02 AMOUNT OF WASTE UOM S03 AMOUNT OF WASTE UOM

S04 AMOUNT OF WASTE UOM S05 AMOUNT OF WASTE UOM

XIV. WASTE IDENTIFICATION

	A. Description of Waste	B. EPA Hazardous Waste No. (see instructions)	C. Handling Method	D. Amount of Waste	Unit of Measure
	Hydrochloric Acid	U 1 5 6	S 0 1	1 3 3 5	P
12	Hydrogen Fluoride	U 1 3 4	S 0 1	1 0 3 7 5	P
13	Phosphoric Acid	U 1 4 5	S 0 1	6 2 5	P
14	Sulfuric Acid	U 1 0 3	S 0 1	2 2 5	P
15	Sulfuric Acid (spent)	U 1 0 3	S 0 1	2 4 2 5	P
16	Phenol	U 1 8 8	S 0 1	1 4 0	P
17	Chloroform	U 0 4 4	S 0 1	4 7 6 0	P
18	Perchloroethylene	K 0 3 0 F 0 0 1	S 0 1	6 0	P
19	Trifluorochloroethane	F 0 0 2	S 0 1	7 1 6 3	P
10	Trichlorotrifluoroethane	F 0 0 2 D 0 0 7	S 0 1	1 1 1 9 5 7	P
11	Isocyanates, Isocyanic Acid	2 2 0 6 P 0 6 4	S 0 1	6 7 0 4	P
12	Mercury Compounds	U 1 5 1	S 0 1	2 5 0	P

XV. COMMENTS (enter information by section number—see instructions)

ENVIRONMENTAL PROTECTION AGENCY 1985

Facility Biennial Hazardous Waste Report for ~~1983~~ (cont.)

This report is for the calendar year ending December 31, 1983

IX. FACILITY'S EPA I.D. NO.

CA9571002514 9

X. GENERATOR'S EPA I.D. NO.

CA9571002514 9

XI. GENERATOR NAME (specify generator from whom all wastes on this page were received)

1 STRAD/ET (4392 AEROSG/DEV) ON-SITE ☐

XII. GENERATOR ADDRESS

1 STRAD/ETQ (4392 AEROSG/DEV)
Vandenberg AFB, CA 93437

XIII. TOTAL WASTE IN STORAGE ON DECEMBER 31, 1983 (complete this section only once for your facility)

S01 AMOUNT OF WASTE UOM | S02 AMOUNT OF WASTE UOM | S03 AMOUNT OF WASTE UOM | S04 AMOUNT OF WASTE UOM | S05 AMOUNT OF WASTE UOM

XIV. WASTE IDENTIFICATION

	A. Description of Waste	B. EPA Hazardous Waste No. (see instructions)	C. Handling Method	D. Amount of Waste	Unit of Measure
1	Ammonia - Solution	U002 2973	S01	2950	P
2	Methyl Chloride	F001 U080 1593	S01	140	P
3	Chlorodifluoromethane Freon 22	F002 U075 1018	S01	415	P
4	Acetone	U002 F003 1090	S01	500	P
5	Methyl Ethyl Ketone	U159 1230 F005	S01	10030	P
6	Methyl Alcohol	U154 1230	S01	3649	P
7	Petroleum Distilates	K049 D001 F002	S01	19125	P
8	Dichloromethane	F024	S01	3324	P
9	Potassium Cyanide	P030 F010	S01	15050	P
10	Trichloroethylene	U228 F001	S01	34395	P
11	Chromic Acid Solution	U032 F006	S01	971	P
12	Sulfuric Acid	U103 D002	S01	2549	P

XV. COMMENTS (enter information by section number—see instructions)

ENVIRONMENTAL PROTECTION AGENCY

Facility Biennial Hazardous Waste Report for ~~1983~~ 1985 (cont.)

This report is for the calendar year ending December 31, 1983.

IX. FACILITY'S EPA I.D. NO.

C A 9 5 7 0 0 2 5 1 4 9

X. GENERATOR'S EPA I.D. NO.

C A 9 5 7 0 0 2 5 1 4 9

XI. GENERATOR NAME (specify generator from whom all wastes on this page were received)

1 STRAD/ET, (4392 AEROSG/DEV) ON-SITE ☐

XII. GENERATOR ADDRESS

1 STRAD/ETQ (4392 AEROSG/DEV)
Vandenberg AFB CA 93437

XIII. TOTAL WASTE IN STORAGE ON DECEMBER 31, 1983 (complete this section only once for your facility)

S01 AMOUNT OF WASTE UOM | S02 AMOUNT OF WASTE UOM | S03 AMOUNT OF WASTE UOM

S04 AMOUNT OF WASTE UOM | S05 AMOUNT OF WASTE UOM

XIV. WASTE IDENTIFICATION

	A. Description of Waste	B. EPA Hazardous Waste No. (see instructions)	C. Handling Method	D. Amount of Waste	
1	Cadmium Compound	U 0 0 6	S 0 1	1 1 5 0	P
2	Diazonin	U 0 6 1		1 1 5 0	P
3	Trichloroethane	U 2 2 6 U 2 2 7 F 0 0 2 F 0 2 4	S 0 1	5 7 0 8 1	P
4	Sodium Chromate	D 0 0 7	S 0 1	5 0 3 7	P
5	Chromium	F 0 0 2 D 0 0 7	S 0 1	3 7 6 2 0	P
6	Allyl Ether Alchohol	P 0 0 5	S 0 1	1 0 0 0	P
7	Resin Solution	F 0 0 3		2 9 0	P
8	Hydrazine (see note 1 & 4)	U 1 3 3	D 8 4	1 5 5 9 3 8	P
9	Hydrazine (see note 2)	U 1 3 3	D 8 4	4 4 5 3 0	P
10	Unsymmetrical, Dimethyl Hydrazine	U 0 9 9	T 0 3	8 4 9 4 0	P
11	PCB - Liquid (see note 3)	2 6 1	T 0 3	1 2 8 2 5	P
12	PCB - Equipment (carcass)	2 6 1	T 0 3	1 3 9 7 9 0	P

XV. COMMENTS (enter information by section number—see instructions)

1. Disposed off base for calender year 85.
2. Remaining HW generation for 1985 (more than 90 days) disposal off base (to an EPA permitted TSD) in progress.
3. CA. HW number 261
4. WET - Air Oxidation

ENVIRONMENTAL PROTECTION AGENCY 1985

Facility Biennial Hazardous Waste Report for ~~1983~~ (cont.)

This report is for the calendar year ending December 31, 1983.

IX. FACILITY'S EPA I.D. NO.

C A 9 5 7 0 0 2 5 1 4 9

XI. GENERATOR NAME (specify generator from whom all wastes on this page were received)

1STRAD/ET (4392 AEROSG/DEV) ON-SITE ☐

XII. GENERATOR ADDRESS

1 STRAD/ETQ (4392 AEROSG/DEV)
Vandenberg AFB CA 93437

X. GENERATOR'S EPA I.D. NO.

C A 9 5 7 0 0 2 5 1 4 9

XIII. TOTAL WASTE IN STORAGE ON DECEMBER 31, 1983 (complete this section only once for your facility)

S01 AMOUNT OF WASTE UOM | S02 AMOUNT OF WASTE UOM | S03 AMOUNT OF WASTE UOM

S04 AMOUNT OF WASTE UOM | S05 AMOUNT OF WASTE UOM

XIV. WASTE IDENTIFICATION

	A. Description of Waste	B. EPA Hazardous Waste No. (see instructions)	C. Handling Method	D. Amount of Waste	Unit of Measure
1	Asbestos Material (see notes)		T 0 3	9 6 8 1	P
2	Waste Oil (see note 5)	2 2 1	S 0 2	3 0 9 2 2 3	P
3	Paint Distillates Related Materials	D 0 0 1 F 0 0 3 F 0 0 2	S 0 2	6 4 6 5 6	P
4					
5					
6					
7					
8					
9					
10					
11					
12					

XV. COMMENTS (enter information by section number—see instructions)

4. CA. HAZ Waste #151
5. CO. HAZ Waste #221

State of California—Health and Welfare Agency

Department of Health Services
Toxic Substances Control Division
714—744 P Street
Sacramento, CA 95814

WASTE STREAM DESCRIPTION REPORT

DIRECTIONS: The intent of this report is to provide the Department with detailed information on the total amount of waste generated, the composition, and the various management steps from the point of generation to ultimate disposal.

If you produced more than two tons per year of hazardous waste, you are required to complete this form for *each* hazardous waste stream which was treated or disposed of on-site or shipped to an off-site facility for treatment, recycling, incineration, or disposal. Do not report information for wastes that were recycled on-site or sewered (e.g., report on hazardous wastewaters going into pretreatment for sewering, but do not complete a report on the effluent going into the sewer). If the pretreatment produces a residue that is shipped off-site for disposal, information on the hazardous residue must also be included on a separate sheet. In the case of multiple treatment steps, a separate sheet should be completed for each step. Indicate "Step 1," "Step 2," etc. under "Status of Waste Stream."

Information requested in this report is for calendar year 1985

Company Name: 1 STRAD/ETO (4392 AEROSG/DEV) Vandenberg AFB, CA 93437

E.P.A. I.D. Number: CA9570025149

Waste Stream Category (Select from manifest categories)

Ca Waste Code Number (see Table 1, on the back)

Status of Waste Stream

- ☒ Off-site disposal
- ☐ On-site land disposal
- ☒ Off-site recycling
- ☐ On-site incineration
- ☒ Off-site treatment
- ☐ On-site treatment
- ☒ Off-site incineration

Step No. ____ of ____

If the waste is treated on-site, is any portion of the waste stream, including treated effluent, discharged to a sewer or a surface water body?

☒ No ☐ Yes If yes, volume discharged _____ Units

Generating Process (Brief description), Spill/Site Clean-Up Material

SIC CODE (see Table 2, on the back)

Approximate Annual Volume of this Waste Stream

Units: ☒ Tons ☐ Gallons

582.039 Short Tons

Major Components Hazardous Constituents	Concentration	Units PPM	Units %	Characteristics
1. Hydrochloric Acid (C, T)	±20.	☐	☒	Corrosive ☒
2. Hydrogen Fluoride (C, T)	±1	☐	☒	Ignitable ☒
3. Phosphoric Acid (C)	95	☐	☒	Reactive ☒
4. Sulfuric Acid (C)	10	☐	☒	Toxic ☒
5. Sulfuric Acid (spent)(C)	50	☐	☒	Other ☐
6. Phenol (T)	±5	☐	☒	
7. Chloroform (T)	30	☐	☒	Physical State
8. Perchloroethylene (T)	±1	☐	☒	Liquid ☒
9. Trifluorochloroethane (T)	95	☐	☒	Gas ☐
10. Isocyanates, Isocyanic Acid (C) (Sludge)	±30	☐	☒	Sludge ☐
11. Mercury Compounds (T)	±10	☐	☒	Solid ☐

For waste which is disposed of on-site or shipped off-site, the following is required by recent law (SB509 of 1985)

Does the waste contain volatile organic carbon content in excess of 1 percent by weight? ☒ Yes ☐ No

If Yes, what percent: (Varies) % (Use method No. 8240; EPA Document No. SW-846)

What is the heat value of your waste in BTU/lb? (Varies) BTU/lb.

Total number of Waste Stream Description Reports submitted:

8046 (10/85)

State of California—Health and Welfare Agency

WASTE STREAM DESCRIPTION REPORT

Department of Health Ser
Toxic Substances Control Div
714—744 P St
Sacramento, CA 95814

DIRECTIONS: The intent of this report is to provide the Department with detailed information on the total amount of waste generated, the composition, and the various management steps from the point of generation to ultimate disposal.

If you produced more than two tons per year of hazardous waste, you are required to complete this form for *each* hazardous waste stream which was treated or disposed of on-site or shipped to an off-site facility for treatment, recycling, incineration, or disposal. Do not report information for wastes that were recycled on-site or sewered (e.g., report on hazardous wastewaters going into pretreatment for sewering, but do not complete a report on the effluent going into the sewer). If the pretreatment produces a residue that is shipped off-site for disposal, information on the hazardous residue must also be included on a separate sheet. In the case of multiple treatment steps, a separate sheet should be completed for each step. Indicate "Step 1," "Step 2," etc. under "Status of Waste Stream."

Information requested in this report is for calendar year 1985.

Company Name: 1 STRAD/ETQ (4392 AEROSG/DEV) Vandenberg AFB, CA

E.P.A. I.D. Number: CA 9570025149

Waste Stream Category (Select from manifest categories)

Ca. Waste Code Number (see Table I, on the back)

Status of Waste Stream

- [X] Off-site disposal
- [ ] On-site land disposal
- [X] Off-site recycling
- [ ] On-site incineration
- [X] Off-site treatment
- [ ] On-site treatment
- [X] Off-site incineration

Step No.____ of ____

If the waste is treated on-site, is any portion of the waste stream, including treated effluent, discharged to a sewer or a surface water body?

[X] No [ ] Yes If yes, volume discharged _____ Units

Generating Process (Brief description)/Spill/Site Clean-Up Material

SIC CODE (see Table 2, on the back)

Approximate Annual Volume of this Waste Stream Units: [ ] Tons [ ] Gallons

Major Components/Hazardous Constituents	Concentration	Units PPM	Units %	Characteristics
1. Trichlorotrifluoroethane (T)	+95	[ ]	[X]	Corrosive [ ]
2. Ammonia Solution (T)	5	[ ]	[X]	Ignitable [X]
3. Methyl Chloride	+50	[ ]	[X]	Reactive [X]
4. Chlorodifluoromethane (Freon 22)	+95	[ ]	[X]	Toxic [X]
5. Acetone	98	[ ]	[X]	Other [ ]
6. Methyl Ethyl Ketone (T)	+45	[ ]	[X]	
7. Methyl Alchohol (I)	65	[ ]	[X]	Physical State
8. Petroleum Distillates (I)	5	[ ]	[X]	Liquid [ ]
9. Dichloromethane (R)	+57	[ ]	[X]	Gas [ ]
10. Potassium Cyanide (R)	17	[ ]	[X]	Sludge [ ]
11. Trichloroethylene (T)	90	[ ]	[X]	Solid [ ]

For waste which is disposed of on-site or shipped off-site, the following is required by recent law (SB509 of 1985)

Does the waste contain volatile organic carbon content in excess of 1 percent by weight? [X] Yes [ ] No

If Yes, what percent: varies % (Use method No. 8240; EPA Document No. SW-846)

What is the heat value of your waste in BTU/lb? varies BTU/lb.

Total number of Waste Stream Description Reports submitted: Page 2 of 4

...a of California—Health and Welfare Agency

Department of Health Services
Toxic Substances Control Division
714—744 P Street
Sacramento, CA 95814

WASTE STREAM DESCRIPTION REPORT

DIRECTIONS: The intent of this report is to provide the Department with detailed information on the total amount of waste generated, the composition, and the various management steps from the point of generation to ultimate disposal.

If you produced more than two tons per year of hazardous waste, you are required to complete this form for *each* hazardous waste stream which was treated or disposed of on-site or shipped to an off-site facility for treatment, recycling, incineration, or disposal. Do not report information for wastes that were recycled on-site or sewered (e.g., report on hazardous wastewaters going into pretreatment for sewering, but do not complete a report on the effluent going into the sewer). If the pretreatment produces a residue that is shipped off-site for disposal, information on the hazardous residue must also be included on a separate sheet. In the case of multiple treatment steps, a separate sheet should be completed for each step. Indicate "Step 1," "Step 2," etc. under "Status of Waste Stream."

Information requested in this report is for calendar year 1985

Company Name | E.P.A. I.D. Number

1. STRAD/ETC (4392 AEROSG/DEV) Vandenberg AFB CA 93437 CA 9570025149

Waste Stream Category (Select from manifest categories) | Ca. Waste Code Number (see Table 1, on the back)

Status of Waste Stream

- ☒ Off-site disposal
- ☐ On-site land disposal
- ☒ Off-site recycling
- ☐ On-site incineration
- ☒ Off-site treatment
- ☐ On-site treatment
- ☒ Off-site incineration

Step No.____ of ____

If the waste is treated on-site, is any portion of the waste stream, including treated effluent, discharged to a sewer or a surface water body?

☐ No ☐ Yes If yes, volume discharged _____ Units

Generating Process (Brief description): Soil/Site Clean-Up Material | SIC CODE (see Table 2, on the back)

Approximate Annual Volume of this Waste Stream Units: ☐ Tons ☐ Gallons

Major Components, Hazardous Constituents	Concentration	Units PPM	Units %	Characteristics
1. Chromic Acid Solution (C)	±30	☐	☒	Corrosive ☒
2. Sulfuric Acid (T)	±95	☐	☒	Ignitable ☒
3. Codmium Compound (T)	10	☐	☒	Reactive ☒
4. Diazonin, DDT (T)	.05	☐	☒	Toxic ☒
5. Trichlorpethane (T)	95	☐	☒	Other ☐
6. Sodium Chromate (R)	90	☐	☒	
7. Chromium (T)	10	☐	☒	Physical State
8. Allyl Ether Alchohol(1)	±30	☐	☒	Liquid ☐
9. Resin Solution (T)	±20	☐	☒	Gas ☐
10. Hydrazine (TI)	95	☐	☒	Sludge ☐
11. Hydrazine (UDMH) (T,I)	95	☐	☒	Solid ☐

For waste which is disposed of on-site or shipped off-site, the following is required by recent law (SB509 of 1985)

Does the waste contain volatile organic carbon content in excess of 1 percent by weight? ☒ Yes ☐ No

If Yes, what percent: Varies % (Use method No. 8240, EPA Document No. SW-846)

What is the heat value of your waste in BTU/lb? Varies BTU/lb.

Total number of Waste Stream Description Reports submitted:

...6 (10/85)

State of California—Health and Welfare Agency

WASTE STREAM DESCRIPTION REPORT

Department of Health Services
Toxic Substances Control Division
714—744 P Street
Sacramento, CA 95814

DIRECTIONS: The intent of this report is to provide the Department with detailed information on the total amount of waste generated, the composition, and the various management steps from the point of generation to ultimate disposal.

If you produced more than two tons per year of hazardous waste, you are required to complete this form for *each* hazardous waste stream which was treated or disposed of on-site or shipped to an off-site facility for treatment, recycling, incineration, or disposal. Do not report information for wastes that were recycled on-site or sewered (e.g., report on hazardous wastewaters going into pretreatment for sewering, but do not complete a report on the effluent going into the sewer). If the pretreatment produces a residue that is shipped off-site for disposal, information on the hazardous residue must also be included on a separate sheet. In the case of multiple treatment steps, a separate sheet should be completed for each step. Indicate "Step 1," "Step 2," etc. under "Status of Waste Stream."

Information requested in this report is for calendar year 1985.

Company Name: 1 STRAD/ETQ (4392 AEROSG/DEV) Vandenberg AFB, CA 93437

E.P.A. I.D. Number: CA 9570025149

Waste Stream Category (Select from manifest categories)

Ca. Waste Code Number (see Table I, on the back)

Status of Waste Stream

- [X] Off-site disposal
- [ ] On-site land disposal
- [X] Off-site recycling
- [ ] On-site incineration
- [X] Off-site treatment
- [ ] On-site treatment
- [X] Off-site incineration

Step No.____ of ____

If the waste is treated on-site, is any portion of the waste stream, including treated effluent, discharged to a sewer or a surface water body?

[X] No [ ] Yes If yes, volume discharged _____ Units

Generating Process (Brief description)/Spill/Site Clean-Up Material

SIC CODE (see Table 2, on the back)

Approximate Annual Volume of this Waste Stream Units: [ ] Tons [ ] Gallons

Major Components/Hazardous Constituents	Concentration	Units PPM	Units %	Characteristics
1.		[ ]	[ ]	Corrosive [ ]
2. PCB - Liquid (Toxic)	±40	[ ]	[X]	Ignitable [X]
3. PCB Equipment (Solid) (T)	±10	[ ]	[X]	Reactive [X]
4. Asbestos Material (Solid)	90	[ ]	[X]	Toxic [X]
5. Waste Oil (Sludge), (I)	95	[ ]	[X]	Other [ ]
6. Distillates Paint Related Materials (I)	95	[ ]	[X]	
7.		[ ]	[ ]	Physical State
8.		[ ]	[ ]	Liquid [X]
9.		[ ]	[ ]	Gas [ ]
10.		[ ]	[ ]	Sludge [X]
11.		[ ]	[ ]	Solid [X]

For waste which is disposed of on-site or shipped off-site, the following is required by recent law (SB509 of 1985)

Does the waste contain volatile organic carbon content in excess of 1 percent by weight? [X] Yes [ ] No

If Yes, what percent: varies % (Use method No. 8240: EPA Document No. SW-846)

What is the heat value of your waste in BTU/lb? varies BTU/lb.

Total number of Waste Stream Description Reports submitted:

DHS 8046 (10/85)

ATTACHMENT H

EPA RCRA Inspection Checklist

Inspection Report
U.S. Environmental Protection Agency
Region 9
Toxics and Waste Management Division
Field Operations Branch

Purpose: to examine RCRA compliance

Facility Name: Vandenberg Airforce Base

Street:

City: Lompoc State: CA Zip Code: 93437

EPA ID number: CA9570025149

Report Number:

Date of Investigation: 6/25/86

EPA Inspector(s): A Siler
Jacobs Engineering

State Inspector(s):

Facility Representative(s): Colonel Kenneth Kuchoff

Report Prepared By: A. Siler

Form A - Interim Status Standards for Facilities
that Treat, Store or Dispose of Hazardous Waste

I. General Information:

(A) Operator: Department of Defense
Street: PO Box 5125 DRMO
City: Vandenberg AFB State: CA Zip Code: 93437

(B) Owner: Department of Defense 4392 AEROSG/CC
Street:
City: Vandenberg State: CA Zip Code: 93437

(C) Site Activity:

- ✓ Generation: Complete Form B
- ___ Transportation: Complete Form C
- ___ Small Quantity Generator: Complete Form D
- ___ Recycler: Complete Form E

Storage:
- X Container (S01)
- ___ Tank (S02)
- ___ Waste Pile (S03)
- ___ Surface Impoundment (S04)

Disposal: N/A
- ___ Injection Well (D79)
- ___ Landfill (D80)
- ___ Land Application (D81)
- ___ Ocean Disposal (D82)
- ___ Surface Impoundment (D83)

Treatment: N/A

	Process Code:	Design Capacity:
___ Tank (T01)	___	___
___ Surface Impoundment (T02)	___	___
___ Incinerator (T03)	___	___
___ Other (T04)	___	___

I. General Information: - Continued

(D) Nature Of Business:

Its primary mission is the launch of space vehicles and operation "tests launching of missile intercontinental ballistic missles.

(E) Description Of Facility Processes:

I. General Information: - Continued

(F) Report Attachments:

II. Interim Status:
(Part 270 Subpart G)

	Yes	No	Comments
(A) Qualifying For Interim Status:			
1. For the existing facility to be treated as having been issued a permit, the facility must have:			
a. Submitted a notification of H.W. activity (270.70a.1)?	✓		
b. Submitted Part A of the permit application (270.70a.2)?	✓		
c. Achieved compliance with RCRA interim status standards (270.70b)?	✓		
(B) Operating During Interim Status:			
1. Has the facility complied with the following restrictions:			
a. Has not treated, stored or disposed of H.W. not specified in the Part A (270.71a.1)?	✓	✓	Updated in Part B and ISD
b. Has not employed processes not specified in the Part A (270.71a.2)?	✓		Part A updated ↑
c. Has not exceeded design capacities specified in the Part A (270.71a.3)?	✓	✓	Updated
(C) Changes During Interim Status:			
1. Has a revised Part A been submitted prior to the following changes:			
a. T/S/D of H.W. not previously identified in the Part A (270.72a)?	✓		
b. Increases in design capacity of processes (270.72b)?	✓		
c. Changes in or additions to processes (270.72c)?	✓		
d. Change in ownership (270.72d)?		✓	no change
2. Have the changes made not amounted to reconstruction (270.72e)?		✓	new facility constructed

III. General Facility Standards:
(Part 265 Subpart B)

	Yes	No	Comments
(A) Required Notices:			
1. Has the RA been notified regarding the receipt of H.W. from a foreign source (265.12a)?	___	___	N/A
2. Before transferring ownership, has the facility notified the new owners in writing of the requirements of Parts 265 and 122 (265.12b)?	___	___	N/A
(B) General Waste Analysis:			
1. Has the facility obtained a detailed chemical and physical analysis of each H.W. (265.13a.1)?	✓	___	Laboratory or MSDS.
2. Does the analysis contain all information that must be known to properly treat, store or dispose of the H.W. (265.13a.1)?	✓	___	
3. Does the facility have records documenting the required H.W. analysis, e.g., lab reports, published data, generator supplied data (265.13a.2)?	✓	___	
4. Has the analysis been repeated to ensure that it is accurate and up-to-date (265.13a.3)?	✓	___	periodic analyses
5. Is the analysis repeated when there is a change in the process (265.13a.3)?	✓	___	
6. For off-site facilities, is the analysis repeated when the H.W. received does not match the H.W. designated on the manifest (265.13a.3)?	___	___	N/A
7. For off-site facilities, does the facility inspect or analyze each movement of H.W. to verify that the H.W. received matches the identity of the H.W. specified on the manifest (265.13a.4)?	___	___	N/A

III. General Facility Standards: - Continued
(Part 265 Subpart B)

	Yes	No	Comments
8. Does the facility have a detailed waste analysis plan (265.13b)?	✓		
9. Does the facility follow the procedures specified in the waste analysis plan (265.13b)?	✓		
10. Does the waste analysis plan contain the following elements:			
a. Parameters of analysis of each H.W. handled (265.13b.1)?	✓		
b. Rationale for the selection of each parameter (265.13b.2)?	✓		
c. Test methods used to obtain a representative sample of H.W. (265.13b.3)?	✓		
d. Frequency which each analysis will be repeated (265.13b.4)?	✓		
e. For off-site facilities, the analysis that generators have agreed to supply (265.13b.5)?			N/A
11. For off-site facilities, does the plan specify procedures for inspection or analysis of each movement of H.W. (265.13c)?			N/A
12. For off-site facilities, does the plan contain the following elements:			
a. Description of procedures used to identify each movement of H.W. (265.13c.1)?			N/A
b. Description of the sampling method used to obtain a representative sample of the H.W. (265.13c.2)?			N/A
(C) Security:			
1. Do security measures include:			Bldg - Autoalarm - Locked
a. 24-hour surveillance (265.14b.1)?	✓		Base is guarded 24 hrs.

III. General Facility Standards: - Continued
(Part 265 Subpart B)

	Yes	No	Comments
b. Artificial or natural barriers and controlled entry (265.14b.2)?	✓		
c. Signs with the legend "Danger- Unauthorized Personnel Keep Out" posted at entrances to active portions of facility (265.14c)?	✓		
(D) General Inspection Requirements:			
1. Does the facility inspect for equipment malfunctions and deterioration, operator errors, and H.W. discharges (265.15a)?	✓		
2. Does the facility follow a written inspection schedule (265.15b.1)?	✓		
3. Is the schedule kept at this facility (265.15b.2)?	✓		
4. Does the schedule identify types of problems that are expected from malfunction, operator error, deterioration or discharges of all: (265.15b.3)			
a. monitoring equipment?	✓		
b. safety, emergency equipment?	✓		
c. security equipment?	✓		
d. operating and structural equipment?	✓		
5. Does the schedule indicate the frequency of inspection for each item (265.15b.4)?	✓		
6. Does the schedule include daily inspections of loading and unloading areas (265.15b.4)?			Weekly inspection and on high volume turnover days
7. Has the facility taken remedial action to correct the problems revealed on an inspection (265.15c)?	✓		

III. General Facility Standards: - Continued
(Part 265 Subpart B)

	Yes	No	Comments
8. Are inspections recorded in an inspection log (265.15d)?	✓		
9. Does the log include: (265.15d)			
a. Date and time of inspection?	✓	?	
b. Name of inspector?	✓	?	
c. Observations recorded?	✓	?	
d. Date and nature of repairs or other remedial actions?	✓		
10. Are inspection records kept for at least 3 years (265.15d)?	✓		
(E) Personnel Training:			
1. Does the facility have a personnel training program (265.16a.1)?	✓		
2. Is it directed by a person trained in H.W. management procedures (265.16a.2)?	✓		
3. Does the program include training in: (265.16a.3)			
a. Procedures for using, inspecting, repairing and replacing emergency and monitoring equipment?	✓		
b. Emergency procedures including contingency plan implementation?	✓		
4. Do new personnel receive required training within 6 months (265.16b)?	✓		
5. Do personnel take part in an annual review of the initial training (265.16c)?	✓		or quarterly if possible Program is across the base Overall > 140 trained

III. General Facility Standards: - Continued
(Part 265 Subpart B)

	Yes	No	Comments
6. Do personnel training records include: (265.16d)			
a. Job titles?	✓		
b. Job Descriptions?	✓		
c. Descriptions of training?	✓		
b. Records of training?	✓		
(F) Requirements For Ignitable, Reactive, Or Incompatible Wastes:			
1. Are the following precautions taken to prevent accidental ignition or reaction: (265.17a)			
a. Separation and protection from ignition sources?	✓		
b. No smoking signs in hazard areas?	✓		
2. Is the T/S/D of ignitable, reactive and incompatible waste conducted so that it does not: (265.17b)			
a. Generate extreme heat or pressure, fire or explosion, or violent reaction?	✓		
b. Produce uncontrolled toxic or flammable mists, fumes, dusts or gases?	✓		
c. Damage structural integrity of H.W. containment devices? (e.g., tanks, containers, liners)	✓		
d. Threaten human health or the environment?	✓		

IV. Preparedness and Prevention:
(Part 265 Subpart C)

	Yes	No	Comments
(A) Is the facility designed, constructed, maintained, and operated to minimize the possibility of fire, explosion, or releases of H.W. to the environment (265.31)?	✓		
(B) Required Equipment:			
1. Does the facility have the following equipment where applicable:			
a. Internal communications or alarm systems (265.32a)?	✓		use 911 system phone at 3 ends -
b. Telephone or 2-way radios at the scene of operation (265.32b)?	✓		↓
c. Portable fire extinguishers with water, foam, inert gas, dry chemical; spill control and decontamination equipment (265.32c)?	✓		
d. Water at adequate volume and pressure or foam producing equipment or automatic sprinklers (265.32d)?			FS#1 1 5/6 miles from facility 20 sprinklers necessary
(C) Testing And Maintenance Of Equipment:			
1. Does the facility test and maintain emergency equipment in operable condition (265.33)?	✓		
(D) Access To Communications Or Alarm Systems:			
1. Do personnel in areas where H.W. is being handled have immediate access to these systems (265.34)?	✓		
(E) Required Aisle Space:			
1. Is their adequate aisle space for unobstructed movement of fire, spill control and decontamination equipment in an emergency (265.35)?	✓		10 ft wide 15' high

IV. Preparedness and Prevention: - Continued
(Part 265 Subpart C)

	Yes	No	Comments
(F) Arrangements With Local Authorities:			
1. Has the facility made the following arrangements:			
a. Arrangements to familiarize police, fire dept., and emergency response team with H.W. operations (265.37a.1)?	✓		Have on base facilities Fire Chief EC
b. Agreements designating primary emergency authority (265.37a.2)?	✓		Base Commander - Security & mutual aid agreements
c. Agreements with State emergency response teams, contractors and equipment suppliers (265.37a.3)?			Hospital Have on base Disaster Team Response
d. Arrangements to familiarize local hospitals with the properties of H.W. and the types of potential injuries and illnesses from exposure to H.W. (265.37a.4)?	✓		On base hospital
2. Did the facility document in the operating record any refusal by State or local authorities to enter into such arrangements (265.37b)?		✓	Situation didn't apply

V. Contingency Plan and Emergency Procedures: (Part 265 Subpart D)

		Yes	No	Comments
(A)	Does the facility have a contingency plan (265.51a)?	✓		
(B)	Content Of Contingency Plan:			
1.	Does the plan describe actions personnel must take to comply with §§ 265.51 & 265.56 in response to fires, explosions, or unplanned releases of H.W. (265.52a)?	✓		
2.	Does the plan describe arrangements agreed by police, fire dept., hospitals, contractors, and State and local emergency response teams to coordinate emergency services pursuant to § 265.37 (265.52c)?	✓		
3.	Does the Plan list names, addresses, and phone numbers (office & home) of all persons qualified to act as emergency coordinators (265.52d)? (list in order of responsibility)	✓		
4.	Does the plan list all emergency equipment including the location and physical description of each item on the list and a brief outline of its capability (265.52e)?	✓	✓	
5.	Does the plan include an evacuation plan for personnel and a description of signals to begin evacuation, evacuation routes and alternate routes (265.52f)?	✓		
(C)	Copies of Contingency Plan:			
1.	Is the plan maintained at the facility (265.53a)?	✓		
2.	Has the plan been submitted to all local emergency organizations (265.53b)?	✓		Onbase hospital, F.D.

V. Contingency Plan and Emergency Procedures: - Con't.
(Part 265 Suppart D)

	Yes	No	Comments
(D) Amendment Of Contingency Plan:			
1. Has the plan been reviewed and immediately amended when required (265.54)?	—	✓	Plan never initiated
(E) Emergency Coordinator:			
1. Is the coordinator familiar with all aspects of site operation and emergency procedures (265.55)?	✓	—	
2. Does the coordinator have authority to carry out the contingency plan (265.55)?	✓	—	
(F) Emergency Procedures:			
1. If an emergency situation has occurred at this facility, has the emergency coordinator followed the emergency procedures listed in § 265.56 (265.56)?	—	—	never initiated

VI. Manifest System, Recordkeeping, and Reporting: (Part 265 Subpart E)

	Yes	No	Comments
(A) Use of Manifest System:			
1. Does the facility comply with the following manifest requirements:			
a. Sign and date each copy of the manifest (265.71a.1)?	✓		
b. Note any significant * discrepancies in the manifest (265.71a.2)?	✓		only minor
c. Give transporter one copy of the signed manifest (265.71a.3)?	✓		
d. Within 30 days after delivery, send a copy of the manifest to the generator (265.71a.4)?			N/A
2. Are records of past shipments retained for 3 years (265.71a.5)?	✓		
(B) Manifest Discrepancies:			
1. Upon discovering a significant discrepancy, has the facility made an attempt to reconcile the discrepancy with the generator or transporter (265.72b)?	✓		no major discrepencies
2. For discrepancies not reconciled within 15 days, has the facility followed the required reporting procedures (265.72b)?			Never occurred
(C) Operating Record:			
1. Does the facility maintain an operating record (265.73a)?	✓		

* Significant discrepancies are:
1. For bulk waste; variations > 10% in weight
2. For containerized waste; variations > one drum
3. Obvious differences such as waste solvent substituted for waste acid

VI. Manifest System, Recordkeeping, and Reporting: - Con't
(Part 265 Subpart E)

	Yes	No	Comments
2. Does the operating record contain the following information:			
a. A description and the quantity of each waste received (265.73b.1)?	✓		
b. The method(s) and date(s) of its treatment, storage or disposal as required by Appendix I (265.73b.1)?	✓		
c. The location of each waste within the facility and the quantity at each location (265.73b.2)? (This information must include cross-references to specific manifest numbers.)	✓		
d. For disposal facilities, the location and quantity of each waste is recorded on a map or diagram of each cell or disposal area (265.73b.2)?			N/A
e. Records and results of all waste analysis and trial tests (265.73b.3)?	✓		
f. Reports detailing all incidents that required implementation of the contingency plan (265.73b.4)?			Never implemented
g. Records and results of operator inspections (265.73b.5)?	✓		
h. Monitoring data (265.73b.6)?			N/A
i. All closure and post-closure costs as applicable (265.73b.7)?			N/A
(D) Availability, Retention, Disposition Of Records:			
1. Are all records including plans available for inspection (265.74a)?	✓		
2. Have copies of records of H.W. disposal locations and quantities under § 265.73b.2 been submitted to the RA and local land authority upon closure of the facility (265.74c)?			N/A

VI. Manifest System, Recordkeeping, and Reporting: - Con't.
(Part 265 Subpart E)

	Yes	No	Comments
(E) Biennial Report:			
1. Has the facility submitted a biennial report to the RA by March 1 of each even numbered year (265.75)?	✓		
2. Was the report submitted on EPA form 8700-13B and cover facility activities during the previous calendar year (265.75)?	✓		
3. Does the report include the following infromation: (265.75)			
a. EPA identification number, name and address of the facility?	✓		
b. Calendar year covered by report?	✓		
c. For off-site facilities, the EPA identification number of each generator?			N/A
d. Description and quantity of each H.W. received and, for off-site facilities, the EPA identification number of each generator listed with this information?	✓		
e. Methods of treatment, storage, or disposal for each H.W.?	✓		
f. Monitoring data under § 265.94a.2.ii and iii and b.2 ?			N/A
g. Most recent closure and post-closure cost estimates?			N/A
h. Required certification?			N/A

VI. Manifest System, Recordkeeping, and Reporting: - Con't
(Part 265 Subpart E)

	Yes	No	Comments
(F) Unmanifested Waste Report:			
1. For a facility that has accepted a H.W. from an off-site source without an accompanying manifest, was a report containing the required information submitted to the RA within 15 days after receiving the H.W. (265.76a-g)?	—	—	N/A
(G) Additional Reports:			
1. Has the facility reported to the RA: (265.77)			
a. Releases, fires and explosions?	—	—	None received
b. Ground-water contamination and monitoring data?	—	—	N/A
c. Facility closure?	—	—	N/A

VIII. Closure and Post-Closure: (Part 265 Subpart G)

	Yes	No	Comments
(A) Closure Plan:			
1. Does the facility have a closure plan (265.112a)?	✓		
2. Does the plan identify the steps necessary to completely or partially close the facility at any point during its intended operating life and to completely close at the end of its intended operating life (265.112a)?	✓		
3. Do the steps to close in the plan include: (265.112a)			
a. Pre-treatment of H.W.?		✓	facility is storage only
b. Treatment of H.W.?		✓	
c. Removal of H.W. from process units?	✓		
d. Disposal of H.W.?	✓		
e. Decontamination of equipment and structures?	✓		
f. Scheduled inspections for closure certification purposes?	✓		
3. Does the description of how and when the facility will be closed include the following elements:			
a. Maximum extent of operation which will be unclosed during the life of the facility (265.112a.1)?	✓		
For facilities that have designated H.W. management areas inactive prior to Nov. 19, 1980, are records available documenting the cessation of activity or final closure?			N/A
Was a Notification of Hazardous Waste Site submitted to EPA as required by § 103c of CERCLA ?	✓		

VIII. Closure and Post-Closure: - Continued
(Part 265 Subpart G)

	Yes	No	Comments
b. Estimate of the maximum inventory of H.W. in storage and in treatment at any time during the life of the facility (265.112a.2)?	✓		
c. Does the inventory include the maximum amount of on-site:			
H.W. in surface impoundments?			N/A
H.W. in tanks?			N/A
H.W. in piles?			N/A
H.W. in containers?	✓		
H.W. in drainage pits or sumps?			N/A
Contaminated soil from spills or leaks?			N/A
Contaminated soils and liners from non-disposal impoundments?			N/A
Contaminated soils from land treatment fields?			N/A
Decontamination residues?			N/A
Process residues?			N/A
Other (specify)?			—
d. Decontamination procedures including: (265.112a.3)			
A list of equipment, containers, structures requiring decontamination?	✓		
Sampling and analytical methods for determining whether soil contamination or decontamination residues are H.W.?			N/A
Testing criteria for determining adequacy of clean-up?			N/A
Methods of treatment or disposal of contaminated soils and residues?	✓		Disposed of as waste

VIII. Closure and Post-Closure: - Continued
(Part 265 Subpart G)

	Yes	No	Comments
e. Estimate of the expected year of closure (265.112a.4)?	—	—	N/A
f. Schedule for final closure activities (265.112a.4)?	✓	—	
g. Does the schedule include:			
Total time required to close?	✓	—	
Time required for intervening closure activities? (e.g., Time required for H.W. treatment, disposal, decontamination, and certification inspections.)	✓	—	
4. Has the facility amended the plan whenever changes in operating practice or process design affect the plan or there is a change in the expected year of closure (265.112b)? (Plan must be amended within 60 days of the changes.)	—	—	N/A
5. Has the facility submitted a closure plan to the RA at least 180 days before the date they expect to begin closure (265.112c)?	—	—	N/A
(B) Time Allowed For Closure:			
1. Does the schedule for final closure allow for the following:			
a. Treatment, removal, or disposal of H.W. within 90 days after receipt of final volume of H.W. or after approval of closure plan (265.113a)?	✓	—	
b. Completion of closure plan activities within 180 days after receipt of final volume of H.W. or after approval of closure plan (265.113b)?	✓	—	

VIII. Closure and Post-Closure: - Continued
(Part 265 Subpart G)

	Yes	No	Comments
(C) Disposal And Decontamination Of Equipment:			
1. For facilities that have completed closure activities, has all equipment and structures been properly disposed of or decontaminated by removing all H.W. and contaminated residues (265.114)?	—	—	N/A
(D) Certification Of Closure:			
1. For facilities that have completed closure activities, has a certification by owner/operator and an independent registered professional engineer been submitted to the RA (265.115)?	—	—	N/A
(E) Partial Closure:			
1. Does the facility plan to close discreet regulated H.W. manage- units during the intended operating life? If "Yes" complete compliance form for partial closure.	—	—	N/A

VIII. Closure and Post-Closure: - Continued
(Part 265 Subpart G)

Compliance Form For Partial Closure

	Yes	No	Comments
(E) Partial Closure:			
1. Does the closure plan describe how the facility will be partially closed (265.112a.1)?	—	—	N/A
2. Does the plan describe the size of areas partially closed?	—	—	
3. Does the plan describe the procedures for partial closure?	—	—	
4. Does the plan address maintenance activities, including: (265.112a.1)			
a. Visual inspections?	—	—	
b. Ground-water monitoring?	—	—	
c. Maintaining cover?	—	—	
d. Maintaining diversion structures?	—	—	
e. Controlling erosion?	—	—	
f. Maintaining vegetation?	—	—	
g. Maintaining site security systems?	—	—	
h. Leachate collection system?	—	—	
i. Gas collection system?	—	—	
j. Other (specify)?	—	—	
	—	—	
5. Does the plan describe the frequencies for each type of maintenance activity (265.112a.1)?	—	—	
6. Does the plan describe when the facility will be partially closed (265.112a.1)?	—	—	
7. Does the schedule for partial closure include: (265.112a.1)			
a. Date(s) of partial closure(s)?	—	—	
b. Total time required for each partial closure?	—	—	
c. Time required for intervening partial closure activities? (e.g., time required for waste removal, stabilization, treatment, disposal; placement of cover; vegetation; decontamination; certification.)	—	—	

VIII. Closure and Post-Closure: - Continued
(Part 265 Subpart G)

	Yes	No	Comments
(F) Post-Closure:			
1. Does the facility have a post-closure plan (265.118a)?	___	___	N/A
2. Does the plan cover the maximum area expected to contain H.W. after closure, including: (265.118a)			
a. Landfills?	___	___	
b. Disposal surface impoundments?	___	___	
c. Land treatment facilities where H.W. will remain?	___	___	
d. Other remaining H.W. (specify)?			
3. Does the plan cover all areas where H.W. will remain that were active as of Nov. 19, 1980 (265.118a)?	___	___	
4. Does the plan provide for 30 years of post-closure care (265.117a)?	___	___	
5. Does the plan clearly identify the activities required in post-closure care (265.118a)?	___	___	
6. Does the plan clearly identify the frequencies for post-closure care activities (265.118a)?	___	___	
7. Does the plan describe ground-water monitoring, including: (265.118a.1)			
a. Number of wells?	___	___	
b. Sample collection activities and frequencies?	___	___	
c. Sample testing procedures and frequencies?	___	___	
d. Replacement of failed wells?	___	___	

VIII. Closure and Post-Closure: - Continued
(Part 265 Subpart G)

	Yes	No	Comments
8. Does the plan describe maintenance for waste containment structures, including the types of activities and frequency of activities necessary to maintain: (265.118a.2)			
a. Site security systems?	___	___	_____
b. Surveyed benchmarks?	___	___	_____
c. Facility monitoring systems?	___	___	_____
d. Final cover (erosion damage repair)?	___	___	_____
e. Vegetation (fertilizing and mowing)?	___	___	_____
f. Runoff collection and treatment systems?	___	___	_____
g. Runon control systems?	___	___	_____
h. Leachate collection, removal and treatment systems?	___	___	_____
i. Gas collection and treatment systems?	___	___	_____
j. Other (specify)?	___	___	_____
	___	___	_____
9. Does the plan identify the name, address and phone number of the post-closure period contact (265.118a.3)?	___	___	_____
10. Did the facility amend the plan whenever changes in operating practices, or process design, or events which occur during the active life of the facility, affect their post-closure plan (265.118b)? (Plan must be amended within 60 days after the changes or events occur.)	___	___	_____
11. Did the facility submit their post-closure plan to the RA at least 180 days before they expect to begin closure (265.118c)?	___	___	_____
12. Did the facility amend the plan whenever changes in monitoring or maintenance plans or events which occur during the post-closure care period affect their post-closure plan (265.118e)? (Facility must petition RA to amend plan in accordance with procedures specified in § 265.118f.)	___	___	_____

VIII. Closure and Post-Closure: - Continued
(Part 265 Subpart G)

	Yes	No	Comments
(G) Notice To Local Land Authority:			
1. For disposal facilities, were the following documents submitted to the RA and local land authority within 90 days after closure was completed: (265.119)			
a. A survey plat indicating the locations and dimensions of landfill cells or other disposal areas with respect to permanently surveyed benchmarks?	___	___	_____
b. A record of the type, location, and quantity of H.W. disposed of within each cell or area of the facility?	___	___	_____
c. A record of the type, location, and quantity of the wastes disposed of before Nov. 19, 1980?	___	___	_____
(H) Notice In Deed To Property:			
1. For disposal facilities, did the owner of the property record in the deed a notation that will in perpetuity notify any potential purchaser of the property that the land was used to manage H.W. and its use is restricted under § 265.117c (265.120)?	___	___	_____

X. Use And Management Of Containers: (Part 265 Subpart I)

	Yes	No	Comments
1. Does the facility transfer H.W. from containers not in good condition or leaking to containers in good condition (265.171)?	✓		originate ~~evaluate~~ Triple check by ODRMO ET
2. Are containers compatible with H.W. stored in them (265.172)?	✓		
3. Are containers stored closed (265.173a)?	✓		
4. Are containers managed to prevent rupture or leakage (265.173b)?	✓		
5. Are containers inspected weekly for leaks and deterioration (265.174)?	✓		
6. Are ignitable or reactive wastes stored at least 50 feet from the facility's property line (265.176)?	✓		
7. Are incompatible wastes stored in separate containers (265.177a)?	✓		
8. Are H.W. not placed in unwashed containers that previously held an incompatible waste or material (265.177b)?	✓		
9. Are containers holding a H.W. that is incompatible with any waste or materials stored nearby in other containers, piles, open tanks, or surface impoundments separated from the incompatibles by suffecient distance or protected by means of a dike, berm, wall, or other device (265.177c)?	✓		
10. Are containers that are not empty managed as a H.W. (261.7a.2)?	✓		empties stored in compatable storage w/ last known content
11. For a container to be considered empty the facility must ensure that:			
a. No more than one inch of residue remains on bottom of container or inner lining (261.7b.1)?	✓		dispose or recycle
b. Containers that held an acutely H.W. are tripled rinsed using a solvent capable of removing the contents (261.7b.3)?		✓	dispose of as H.W.

XI. Tanks:
(Part 265 Subpart J)

	Yes	No	Comments
1. Is the treatment or storage of H.W. in tanks conducted so that it does not: (265.192a)			N/A
a. Generate extreme heat or pressure; fire or explosion; or violent reaction?	—	—	
b. Produce uncontrolled toxic or flammable mists, fumes, dusts, or gases?	—	—	
c. Damage the structural integrity of the tank?	—	—	
2. Are H.W. or treatment reagents placed in a tank so that they do not cause the tank or its inner liner to rupture, leak, corrode, or otherwise fail (265.192b)?	—	—	
3. Do uncovered tanks have at least 2 feet of freeboard, or dikes, or other containment features (265.192c)?	—	—	
4. Where H.W. is continuously fed into a tank, is the tank equipped with a waste feed cutoff system or by-pass system to a stand-by tank (265.192d)?	—	—	
5. Does the facility conduct waste analysis and trial treatment or storage tests, or have they obtained written documentation on similar storage or treatment of similar waste under similar operating conditions before the tank is used to:			
a. Chemically treat or store a H.W. which is substantially different from waste previously treated or stored in the tank (265.193a.1)?	—	—	
b. Chemically treat H.W. with a substantially different process than was previously used (265.193a.2)?	—	—	

XI. Tanks: - Continued
(Part 265 Subpart J)

	Yes	No	Comments
6. Are daily and weekly inspections done for the following:			
a. Discharge control equipment e.g., feed cutoff, bypass and drainage systems (Daily) (265.194a.1)?	___	___	_____
b. Data gathered from monitoring equipment e.g., pressure and temperature gauges (Daily) (265.194a.2)?	___	___	_____
c. Level of waste in uncovered tanks (Daily) (265.194a.3)?	___	___	_____
d. Construction materials of tank e.g., corrosion, leaking fixtures or seams (Weekly) (265.194a.4)?	___	___	_____
e. Discharge confinement structures e.g., dikes (Weekly) (265.194a.5)?	___	___	_____
7. At closure, are all H.W. and residues removed from tanks and associated equipment and structures (265.197)?	___	___	_____
8. Are ignitable or reactive waste treated, rendered, or mixed before or immediately after placement in a tank so that the resulting waste no longer meets the definition of ignitability or reactivity (265.198a.1)? or	___	___	_____
9. Are ignitable or reactive waste stored or treated in such a way that it is protected from conditions which may cause the waste to ignite or react (265.198a.2)?	___	___	_____
10. Does the facility comply with the buffer zone requirements for covered tanks containing ignitable or reactive wastes specified in tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code" (1977 or 1981) (265.198b)?	___	___	_____
11. Are incompatible wastes stored in separate tanks (265.199a)?	___	___	_____
12. Are H.W. not placed in unwashed tanks that previously held an incompatible waste or material (265.199b)?	___	___	_____